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EDITOR'S COMMENT

THE constantly increasing importance from a diagnostic standpoint of roentgenological methods of examination particularly in conunction with the injection or administration of opaque substances is one of the most interesting developments of contemporary medicine Roent genological visualization of the alimentary tract. the urmary tract and the gall bladder has been achieved and accented as an important and essential aid in diagnosis. Visualization of the cerebral ventricles and the subarachnoid space with the aid of air injection has at times proven of diagnostic value when localizing signs of nathological lesions have been absent. The injection of air into the peritoneal cavity or the recognition of an accumulation of gas outside the abdoromal viscera occasionally is of very great diagnostic importance

In the demonstration of the bronchial tree of the spanal subarachnoid space, and still more recently of the uterme cavity the use of iodized oil has attracted considerable comment in past months particularly in France. A review of some of the indications and results of the use of limedal by Sicard and Forestier appears on page 57 Lorey (p 1c) reports twelve cases in which iodized oil was used in the demonstration of bronchiectases and Escudero and his associates (p. 15) the visua lization of hepatobronchial fistulæ with indized oil Clark and Ferguson's comment on the value of roentgen demonstration of the opaque bladder in cases of cystocele and prolapse of the uterus (p 25) indicates the possibility of determining with some degree of evactness the results of surgical procedures designed to correct these conditions

With reference to cholecystography, the surpestion of Graham and his associates (n. +a) that it may be possible with the injection of a single substance to determine kidney and liver function and render the gall bladder onaque to the \ ray and Richter's warning that the absence of signs of call bladder nathology in X ray examination should not be permitted to outweath clinical symptoms of disease (p. 22) deserve attention

A number of particularly interesting abstracts relating to various phases of neurological surgery will be found in this month's issue of the An STRACT Singleton's namer on the recognition and treatment of glossopharyngeal neuralgia (n. 10). Taylor's suggestion as to the possibility of pre serving the onbthalmic division of the fifth perve in dividing its sensory root (n. o). Davies discussion of the indications technique and results of phrenic evulsion in the treatment of pulmonary tuberculosis and bronchiectasis (p 11) and Thearle's report of sixty two cases of radical phrenicotomy for pulmonary tuberculosis (p. 11). touch important problems in neurological surgery

Kellogg's conclusions as to the treatment of placenta prævia based on 303 cases from the obstetrical service of the Boston City Hospital (p. 32) Colebrook and Fry's report of some laboratory investigations in connection with puer peral fever (p 33) Mediar's study of twenty six cases of early renal tuperculosis (p 38) Hunt's careful description of the technique of hamostasis in suprapubic prostatectomy (p. 41) and Wittek's discussion of the treatment of injunes of the hand and fingers (p 40) are only a few of many abstracts on subjects of very practical im portance appearing in this month's issue

INTERNATIONAL ABSTRACT OF SURGERY

JULY, 1926

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Blair V P Notes on the Operative Correction of Facial Palsy South M J, 1926 xx, 116

Simple nerve suture is seldom a practicable pro cedure in facial palsy because of the short course of the main trunk of the nerve in the soft tissues and the small diameter of its branches Complete trans verse injury proximal to the pes anserinus is pref erably treated by anastomosis with the spinal ac cessory or the hypoglossal nerve Palsy of the twefth nerve is very crippling to singers and speakers, and paralysis of the eleventh to laborers Although suc cessful innervation may follow anastomosis with part of the donor nerve trunk or implantation of the facial into the donor nerve most surgeons prefer to use the entire donor nerve Although not originating as finely differentiated movements as the hypo glossal nerve, the spinal accessory can give worth while innervation to the facial muscles The object tionable movements can be largely overcome by exercises before a mirror

The most noticeable feature of long established Bell's palsy is Interal displacement of the mouth to the opposite side which is most evident in similing and laughing. Most of the innervation of a nerve anastomoss is obtained in from six to twelve months, but learning to use this innervation to the best advantage requires much longer.

Transplantation of innervated muscles for Bell's palsy has not been tried by the author

Mechanical fixation is accomplished by (1) shortening the stretched tissue on the paralyzed ade, or (2) obtaining rivation by the implantation of live strands of autogenous fascia lata strips. The first method is used chiefly after excision of the parotid gland and its contained herve and is done at the time of the excision. Fascial strip fixation is of more exact application and is used alone or with nerve suture. This operation, if done shortly after a nerve anastomosis, greatly lessens worry and uncertainty during the period of nerve regeneration decreases

the load on the newly and often partly innervated muscles, and limits the overstretching of the para lyzed muscles

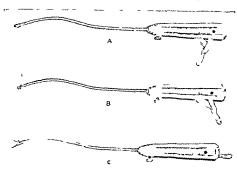
The fascia loops that are substituted for the orbic ularis oris and the bucinator muscles should firmly engage the fibers of the unparaly zed half of the orbic ularis muscle in both the upper and lower lips and should be fixed literally in the fiscia in front of the ear. The fascia is inserted as shown in the illustration

A specially devised trocar needle (the Reverdin needle is too short, a simple large eyed needle on a handle prolongs the operation and increases the chance of fascia contamination) enter, a small skin meision near the ear engages the temporal fascia or tissue over the parotid traverses the cheek and emerges at the messal end of the future loop. One end of the fascial strand is locked in the needle and the needle withdrawn, an inch or so of the strip being left to protrude at the messal needle puncture.

The strip is then disengaged and the needle re introduced into the original skin opening hear the ear, brought through the cheek by a different route, and brought out at the previous messal opening where the protriding fascal end is grasped and drawn back through the tissue. The two free ends, which then emerge at the same incision near the ear are tightened to produce the proper amount of fixation, this being tested by relaxing the pull after the application of a Halsted (lamp to the fascal loop ends

When the correct length has been determined, the ends are sutured together with fine silk and buried in the tissues. As in the other types of fascia suture, each stuch engages only a part of the thickness of the strand. The fascial loops should be sufficiently short to cause quite noticeable overcorrection.

Immediately after closure of the wound the strain is taken off the newly implanted fascia by maintain ing the face in an overcorrected position by means of one layer of gauze applied with flexible collodion. A marine sponge pressure dressing is used for two weeks.



lig r Tr cir me lie u el in implanting the fascial strips. A position with the hook on the treat prima led ready to grasp the fascial strip B the hook partially withdrawn into the tracar the fiscal trap within its grasp I the position of the tro ar while the needle is being a seried it withdrawn



Fig. 2. I the manner of u ing the needle. B the fascial strip in place

Infection excessive hamourhige and the use of a homograft have been causes of failure. The author prefers suk as a ubstitute for any live autog nous tissue but is prejulice I against all foreign implants such as preserved tendon and kangaroo tendon

If partial paralysis from section of the inframan dibular branch during a drainage inci ion or the re moval of the submaxillary lymph glands requires correction the author prefers fascial fivation of the intured side to paraly is of the opnonent muscles

Ophth 1926 35 17 90

The author gives the Helmholtz and Tscheming theories of the mechanism of accommodation and summarizes the evidence in favor of the Tscherning theory as follows

EYE

Obarrio P The Mechanism of Accommodation Confirmed by Experimental Data Am J

r Experimental data reveal that the contraction of the ciliary muscle enlarges the ciliary opening,

WALTER C BURKET M D

producing tens on instead of relaxation of the susperson limment

. When the lers is removed from the souncese and allowed to assume the form given it by its own elasticity its shape becomes more or less globular or spheroidal which is not the shape that it asumes dunny the act of accommodation

Rereated measurements of the duplacement of reflected images demonstrate that during accommodation the surface of the lens has a considerably greater curvature in the center than at the periphers

. The trembling or introing motion of the images during accommedation is due to the vibrators action of all of the voluntary muscles, which is imparted to

the lens through the ligaments

The amplitude of accommodation dimini hes toward the periphers of the pupil and the contraction of the longitudinal fibers of the ciliary muscle exerts traction on the choroid, tending to give further support and consistency to the vitreous which in turn steadies the posterior surface of the lens

6 Becau e of its extreme tenacity and elasticity and its dome shape, the posterior capsule cannot fatten cut in the middle, but toward the periphers where the cortex of the 'ens s considerably softer, it vields to the action of the supensory ligament

The increase in thickness of the lens during accommodation is due to the double pressure exerted upon the softer cortex by the vitreous acting on the posterior surface and the beament acting laterally these forces causing a displacement of this ofter mass toward the point of least res. tancethe anterior capsule

8 The descent of the image of the posterior cansule during an extreme effort of accommodation is due possibly to a very slight tilting of the lens in its horizontal ans and probably also to slight motion

of the eye itself

o It must be borne in mind that during con Success all involuntary muscles maintain a state of tone and that therefore the heament at all times exerts a slight tention due to the tone of the ciliary muscle and the elisticity of the lens capsule, prin cipally the posterior carsule

10 All of these facts are possible because of the action of Schlemm's canal as a safety valve in the

AUBREY H. PEUBER M D

anterior chamber

Ziegler S L The Surgery of Trachoma Practical Problems J Am M 4ss 19 6 lxxxvi 399

Ziegler reviews the lesions that cause the per sistence of trachoma and describes the operative treatment. The chief factors in this pathogenic dysfunction are two mechanical processes (1) lid friction from blepharophimous and triching and (2) lachrymal maceration from the perversion of tears and ob-truction of the ducts by trachomatous in

Bleph_rophimo-is is caused by the acute swelling engendered by the hypertrophied papillæ the gelatinoid granulations and the engorged muco-a. In the later stages cacatrical contraction of the con

munction, tarsal cartilage, and total lid structure adds to the complications. The ensuing entropion with trichiasis and the consequent lid friction finally result in multiple ulcers or in pannus limited to the area of pressure contact. These corneal lesions will di appear when the lid tension is properly relieved

Lachrymal obstruction causes simple epiphora or the regurgitation of septic secretions. To this may be added the infectious conjunctival di charge and the hypersecretion of tears from the lachrymal cland This excess of moisture stimulates the growth of polypo d granulations on the conjunctival surface and adds to the maceration that generally follows the corneal ero ion caused by lid friction. This lachrymal secretion often causes the failure of an operation that would have been successful if the lachmal lesions had been eliminated

Accordingly the practical problems in the surgery of trachema narrow down to the correction of lid

friction and lachrymal maceration

Under the heading Conservative Surgers of Trachema ' Ziegler describes Knapp s roller operation freezing with carbon dioxide snow canthotomy canthoplasty rapid dilatation of the lachrymal canal galvanocautery puncture for entropion and trichiasi and galvanocauters peritomy for pannus

In di cus ing canthotomy he states that the best procedure for relieving the lid tension is cantholysis or ection of the superior canthral ligament. With regard to canthoplasty he says that you Ammon's technique is the one usually employed but that Agrey's addition of cantholysis improves its results

Or the radical Jurgical procedures he recommends for milder cases von Burow's operation for splitting the tarsal cartilage. In extremely chronic cases the Kuhnt Hei rath excision of the tarsal cartilage is Whichever one of these operations is nece and decided upon at should be preceded or supplemented by canthotomy, galvanocautery puncture and rapid dilatation of the lachevinal canal

L. L. McCox, M.D.

Loeb C Choked Disk and Vitreous Onacities Following Fracture of Skull Am J Ophth 10 6 3 13 184

Following fractures of the skull choked disk is not uncommon retinal hamorrhages are rarer and vitreous opacities are very unusual. Under these con ditions choked disk may not be the result of increased intracranial pressure but due to hamorrhage into the nerve sheath

A man 32 years old sustained a fracture of the skull At examination several weeks later the eves appeared normal externally but the vitreous of both eyes was cloudy, a large blood clot was found in the vitreous, and detachment of the reting was suggested. The disks were in the stage of receding papillordema Several months later the vision of the right eye was normal with the proper correction. One large opac ity in the left vitreous prevented a good view of the fundus and caused a diminution of 'to on

IRGIL WESCOTT, MD

Rutherford C W Some Essentials of Glioma of the Retina im J Ophth 1926 15 lt 171

Rutherford reports the case of a child 31/2 months old whose parents had noted a peculiar appearance in its right pupil. The giveral examination and history were negative. The right eve was bland The pupil was larger and reacted more slaggishly than the left. Behind the right lens was a vellowsh rounded mass occupying the entire vitreous chamber. The diagnosis was slown of the return. The eve was enucleated before extra order extension or metasta sus had occurred. The microscope received all the essential characteristics of a gloom of the return. Justic Wassorr M.D.

EAR

Guthrie D. The I rognosis of Middle Far Suppuration in Children. Idinburgh M. J. 1926 xxxiii Med Chir Soc I dinburgh 40

Middle car suppuration is often regarded as a trisial authent but is a disease of consist rable importance as it is a direct cause of ill he ilth and derfiness and may even prove fatal. It autops it has been found in as many as 80 per cent of infants under 1 year of — Te the vast majority of cases a common cold is

the tricus stems different suppuration is being in est thor 18 per cent were those from two to beste mastoods

streptococcal in
iosis if infractanal
Of thirty nine pa
indition 75 per cent

media the outlook is arometty is attribut islant re infection by foot patients treated were cured and in ischarge were still iven in fifty seven conting regardless

und in twenty
operation is the

concludes that Fig 2 \ the rmore favorable olds in infancy

Infection excessive harmorphage removed Such homograft have been causes of fails in adult his prefers silk as a substitute for any cluster. M.D. tissue fut is prejudiced against all

tissue 'nt is prejudiced against au End Results such if dendon and kanple End Results from section old Operation dib me

children between the ages of 7 and 16 years. The tests used were the conversational voice and watch tests. Both were used before operation and repeated after the cavity had been dry and healed for a year.

Keen found that the hearing which remains is in dependent of the duration of the middle ear support into provided bone conduction is good. The findings at operation have no relationship to the final hearing except when cholestectomata are present when hearing tends to be poor. The most favorable operation easily from the standpoint of hearings the large dry cavity hinch by a thin epithelium. The poorest is the mucous membrane 15 pc.

Of keen's patients one third had better heaning and is no thirds had poorer hearing one sea after the operation. The result was somewhat dependent upon whether the ear was used or not "A new theory is needed to explain sound conduction in the above of the drum and osselies after a radical mustodiet tomy. According to Tumermanan's theory which appears to be the most logical sound wases reach the cockleab, was, of the promonitory the basilir membrane being thus set in motion without the intermediary of the laby runthine fluid. The ear is probably unique in its power of adaptation since after sound wases reach the cockleab yother was these unusual channels have developed so strikingly that the hearing is excellent.

GEORGE R McViller WD

NOSE AND SINUSES

Shibley G S Hander F M and Dochez A R Studies on the Common Cold 1 Observations of the Normal Bacterial Flora of the Nose and Throat with Natiations Occurring During Colds J Expt Med 1925 Alu 415

The studies reported in this article were under taken to obtain an acceptable explanation of the causation of the common cold

The methods employed in the investigation are described and the findings given in tabular form Cultures of the nose and throat of normal persons were compared with cultures made during colds and the includence of certain greatisms was noted

The normal base nasal flora includes staphylococcus albus diphtheroids and in certain persons staphylococcus aureus and citreus. Occasional transient bacteria are Cram negative cocci and non hamoly to streptococcus.

The normal base throat flors includes Gram negative cocci non hamolytic streptococci and in certain persons large Gram positive cocci bacd las influenza bacillus. A and diphtheroids Transient organisms are staphylococcus albus, hamolytic streptococci staphylococcus aureus and citreos and neumococci.

In the cirly stages of colds the cultures showed no bacteria to which a role in the causation of the cold could be assigned but the basic flora of the nose was

and the throat showed a reduction of

prominence or alterations in predominance of the basic flora

Organisms which were prominent in colds usually as late or secondary invaders, were staphylococcus aureus, harmolytic streptococci, and bacillus in fluenzæ

There was a striking incidence of hæmolytic streptococci in throat infections

A R HOLLENDER M D

Van Gilse P H G Investigations on the Development of the Sphenoidal Sinus J Laryngol & Olol 1926 xli 137

The sphenod sums consists of two purts, the neo sinus and the part sutarted directly behind the an terior wall which the author has named the 'palaiosinus' The palaio sinus develops very early in fetal life

The nose is formed by an ingrowth of epithelium from the surface into the mesenchyme and the re sulting cavity becomes connected with the mouth through the primitive choanæ The extension of the ingrowth beyond the posterior part of the primitive choanæ is the origin of the palaio sinus. In an em bry o 50 mm in length the misal cavity is enclosed in a cartilaginous capsule the posterior part of which becomes the sinus cupularis posterior or recessus At a further stage the recessus ossifies, forming a bony capsule which surrounds the sinus on all sides On the anterior wall of the recessus there then re mains a narrow opening, the ostium of the later formed sphenoid sinus Pneumatization begins only after the capsule and sphenoid have become fused

In adult life the sphenoid always consists of two parts, the remains of the capsule and the true sinus. The pneumatization is performed by the subepithe lial layer of mucous membrane covering the walls of the palao sinus. When secondary pneumatization is incomplete, a sinus within the sinus may be formed. This is situated so laterally that it may be mistaken for an ethmoid cell.

Absence of the sinus is rare, and a double sinus can occur only with malformation of the nose A double opening in a sinus is due to some pathological condition

The cessation of pneumatization is due to the presence of softer material such as remnants of car things or connective tissue. Irregularities of the such as the control of pneumatization by abnormal conditions of the bone irregularities in tusion of the different parts (nickets) pathological conditions of the mucosa, or ozzena.

GEORGE R MCAULIFF M D

PHARYNX

Trotter W The Surgery of Malignant Disease of the Pharynx Bril M J 1926 1 269

In the lary ngophary nx carcinoma usually does not progress with great rapidity, especially if the patient ondition hey had nversely d It is balance ion old that iount of of their btaining sem had

M D

y of the Special Thyroid rsorgung Bemer Idruesen 83

y in the

r partial cadaver are not d to the ion as to taken by answered subjected our cases half of the ht months th inferior of the muht t lobe of the viously In ight side had ht lobe with ith, all of the of exophthalmic ie right lobe had ecurrence Death

llateral circulation is gation of all four main rimed by both the pre r vessels. Following the esection, the retrogland the collaterals because, in straight muscles of the neck-parated from the gland and vessels are torn through while are preserved. Srain (2)

or showed that after

Diagnostic Criteria of Chronic in with Spec efer Phos, of a lood

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oid in

() are

NECK

Berry Sir J Some Clinical Aspects of Simple Golter with Remarks on Its Causation Lancet 10 6 ccx 260

Berry regards simple gotter not as a hypertrophy of the thyroid but as a degenerative process in which the colloid is increased and the cellular elements are decreased.

He states that he does not believe that a lack of sodine is the caustine factor in simple or endemositer since on numerous occasions when a new water supply was put in in a gotter district and tests showed no todine in the water the medience of goiter was reduced. In one case the reduction was from 80 to 2 2 pur cent.

From his experience of thirty five years and visits to nearly every goiter section in Europe, Berry concludes that at least in the visit majority of cases the decases is produced through the agency of drinking water. He does not know what element in the water is responsible but states that preducing all waters that produce goiter contain mineral matter of a relearnous nature. Venus L Suggragus Williams and a calcarnous nature.

Felberbrum D and Finesilver B Substernal Thyroid im J W Sc 1026 clay 18

The authors call attention to the fact that the substernal thyroid is frequently overlooked. In a series of 495 teleroenteticnograms made in routine cardiou ascular examinations six cases of substernal thyroid were found.

The diagnosis is based upon (1) remote or tow symptoms induced by hyperactivity of the gland or (2) pressure symptoms. Fluoroscopic evanination is of great aid in differentiating between an intrathoracic goiter and a sacculated incurism of the ascending arch of the rotts. An intrathoracie goiter lacks the expansile characteristics of an ancursm and mores with the trachea during respiration. The condition is often symptomics and remains being for many vest?

In two of the authors cases minute doses of thy road cused great symptomatic improvement. When symptoms of mediastinal compression are severe surgery or deep \ ray treatment may be considered framer I. Surgerica M.D.

Dinsmore R S Hyperthyroldism in Children Surg Gynee & Obst 1926 vin 172

Surg Gyne Golen type duty.

Hyperthyroidism in children is more common than has been suppo ed. Its cause is unknown its moret abrupt and its course rapad. No case of hyperthyroidism in a boy under to vears of age has been reported. In many cases of hyperthyroidism in children there is a history of gotter in other members of the family. Aleen reports three cases of hyper thyroidism following removal of the tonsils. In only a few cases is there a history of a directly preceding infection. In a small percentage the hyperthyroid ism developed after todine therapy but disrippeared promptly hent this treatment was discontinued.

The condition is chiracterized by nervousness followed by enlargement of the thy roof gland tachy cardia and exophibalmos. Tremor was noted in twenty five of forty eight cases. In sixteen there was a lo soft weight. The pulse averaged 125 and the maximum rate was 162. The basal metabolism rate in children with hyperthyroidism has not been definitely established.

The treatment of hyperthyroidsm in childred does not differ essentially from that of hyperthy rodism in adults but the child is and to be very all active the operation. Careful handling is essential as children with hyperthyroidsm are always poor operative ranks. As a rule preliminary ligations of the articres on sprante days should be done three months before thanked ones. The thyroiderform. The thyroid should

MARCUS H HOBERT MD

Hadylkes S Experimental Thyrotoxicosis The Phyroid and its influence on Gastric Secretion (Die experimentalle Thyrotoxicose die Schild drusse und ihr Finfluss auf die Magensekretion) Russkap Alin 1925 u 199

be removed before foci of infection are attacked

In order to study the influence of the thyroid on gastric secretion the author conducted investigations on macteen normal males none of whom showed any disturbance of the endocrine glands or other internal organs and all of whom had a normal gastric secretion. The comparative studies on the gastric secretion where made with the aid of a thin tube introduced before the thyroid prepriation was given and again at the end of the experiment. From nine to twent four tablits of dried thyroid substance were given by mouth daily until pronounced symptoms of thirotovicosis were demonstrated especially on the part of the cardiovascular system. The administra

ion of the thyroid substance was then stopped. In most cases there was a dimmultion in the gastrus secretion—a decrease in the acidity as well as in the quantity of the junce. An increased secretion was found in only 17 s per cent. The gastrus secretion was decreased on the patients who had received large doses of thyroid substance and had reacted strongly and was increased in those who reacted weakly Corresponding reports by other intestigation without the consument of the third property of the property

Read J. M. The Prognosis in Exophthalmic Golter im J. M. Sc. 1920 class 227

Lyophthalmic goiter occurs at all ages and in all parts of the world but its incidence seems to be greatest in goiter districts. It is about nine times more common in females than in males. It is prone to run a cyclic course with remissions and recrudes ecinces and has a tendency toward chromathy though it frequently ends in spontaneous recovery. It pre

sents atypical forms and is associated with an irre ducible mortality. Its most constant feature is an increase in the basel metabolic rate.

Acute cases of evophthalmic goiter with a well defined onset offer a more favoruble prognosis for recovery than those with an insidious onset and symptoms noted for several years before the patient seeks treatment. The height of the basal metubolic rate offers only slight assistance in the estimation of the prognosis. Males with evophthalmic goiter seem more resistant to treatment and are more apt to become chronic sufferers from the condition than females. Subtotal thy roudectomy nearly always produces a remission of the disease if the patient survives the operation but it does not constitute a cure.

APTHUR I. SHRIFFILER M. D.

Fitzgerald R R A Comparative Study of the Effect of Two Different Preparations of Iodine Upon the Pre Operative Basal Metabolic Rate in Exophthalmic Goiter Canadian M Ass J, 1005 NJ, 150

The author reports a comparison of the action of Lugol's solution in lowering the pre-operative basal metabolic rate in exophthalmic goiter with that of resublimed iodine given in solution in dilute hydrodic acid. It is well known that Lu₀ol's solution in the pre-operative management of exophthalmic goiter shortens the period necessary for pre-operative rest, renders inoperable cases operable, and nearly eliminates the postoperative reaction.

Fitzgerald compared two series of cases which were as nearly as possible alike and were treated by one or the other method exclusively. In all of these cases the histopathological changes of evophthalmic gotter were found on microscopic examination of the thyroid tissue removed at operation. The basal me tabolic rate was lowered in nearly every case, re gardless of the kind of iodine used. This rate generally fell gradually to a minimum in from three to fourteen days and then rose slightly, and remained approximately constant. The two methods of treatment produced practically the same decrease in the basal metabolic rate and in about the same length of time.

A minim of Lugol's solution contains approximately 58 mgm of available nodine and a minim of dilute hydrodic acid 66 mgm of available nodine. It was found necessary to give nearly four times as much resublimed todine as Lugol's solution to produce the same clinical result. CVEL J GLASPEL M D

Gilman P K and Kay W E Total Thyroidectomy in Thyrotoxicosis of the Exophthalmic Type A Preliminary Report Am J W Sc 19 6 clxii 239

Gilman and Kav report ten cases of thyrotoxicosis of the evophthalmic type in which a total thirror dectomy was done the sirety of the parathyroids and recurrent lary ngeal nerves being insured by shaving the posterior portion of each lateral lobe as close to the capsule as possible. They determined upon this

treatment because they believe that in this condition the entire gland is diseased and because they had noted that the postoperative reaction is inversely proportional to the amount of gland removed. It is not difficult to maintain a proper thyroid balance by the adjunctories of a thyroid preparation.

Before the operation the patients were told that they would be obliged to take a certain amount of thyroid preparation dail, for the remainder of their lives. No difficulty was experienced in obtaining their consent to the operation as all of them had been rendered invalids by the condition

ARTHUR L SHREFFLER, M D

Geiger H The Fate of the Blood Supply of the Thyrold After Thyroidectomy with Special Regard to the Formation of a New Thyroid Capsule (Ueber das Schicksal der Bluttersorgung in Schiddruesen nach Strumektomie mit Bemer kungen ueber die Bi'dung der neuen Schilddruesen kapsel) Better klin Chri 1925 exveni 153

To determine the fate of the blood supply in the remaining portion of the thyroid gland after partial thyroidectomy the ordinary methods of cadaver examination with injection of the vessels are not sufficient as they show nothing with regard to the formation of collateral vessels. The question as to what vessels are formed and what route is taken by the blood after ligation of the arteries can be answered only by studying the cadavers of persons subjected to thyroidectomy. The author studied four cases

In the first case resection of the lower half of the right lobe of the thy road had been done eight months previously. In the second, ligation of both inferior arteries ligation of the anterior branch of the right superior artery, and resection of the right lobe of the thyroid had been done eight vers previously. In the third ligation of the vessels of the right side had been followed by resection of the right lobe with division of the isthmus. In the fourth all of the vessels had been ligated on account of exophthalmic gotter nine years previously and the right lobe had been resected later because of recurrence. Death occurred the day after the resection.

The studies miade by the author showed that after ligation of single arteries a collateral circulation is formed on the gland. After ligation of all four main arteries anastomoses are formed by both the pre glandular and postglandular vessels. Following the ligation of all vessels and resection the retroglandular vessels form most of the collaterals because, in the operation the short straight muscles of the neck are either divided or separated from the gland and therefore the delicate vessels are torn through while the posterior vessels are preserved. Stam. (2)

Berman L The Diagnostic Criteria of Chronic Parathyroid Insufficiency with Special Reference to the Phosphate Content of the Blood Am J M Sc 1926 Clxu 245

Criteria of chronic parathyroid insufficiency are dystrophies of the hair, nails teeth and skin, me

chantal hyperextiability of the nerves as indicated by the Trousseru and Chvostak phenomen etc tracal hyperintiability of the peripheral nerves a decrease of the calcium content of the blood and a decreased phosphate content in the urrie with phosphate retention in the tissues and an increa ed phosphate content in the blood

The Trousseau phenomenon is produced by the application of a ligature firmly about the upper arm. The pressure should be sufficient to prevent per ception of the pulse. The phenomenon consists in the assumption of the obstetrical hand after from three to five minutes on stroking of the palm.

The Chyostek phenomenon is the response to mechanical stimulation of the facial nerve it its point of emergence from the parotid gland as the pes anserinus writer L. Sureffer M.D.

Willer J W The Treatment of Laryngeal Tuber culosis with the Goerz Wessely Lamp Wed J & Rec. 1926 cavin 166

Miller reports in some detail his observations of the use of the Wessely lang in the treatment of tuberculosis of the lang in the Wessely of Vienna The Wessely lamp is an archight with carbon birst especially, constructed and impregnated according to the Goorg system by which the greatest concentration of the raws is thrown to one side and made to converge rate of a cone through the medium of a

quartz optic The heat rays are absorbed by a vater jacket connected with the quartz optic

In tuberculous of the 1st nay the treatment is ad ministered directly by means of the S-iffert universal laryngoscope or a metal laryngeal mirror. The period of treatment varies from a few neeks to one and one half years.

Miller is of the opinion that in laringeal tuber culosis this form of treatment heals if it does not actually cure

James C. Braswell, M.D.

Jackson C Blastomycosis of the Larynx 4rch Ololaryngol 2026 ni 93

Blastomy costs of the lary nt is a rare di case but in Jackson's opinion may not be so rare as is sig gested by the paucity of case reports and the failure of tettbooks to mention it Jackson reports one case and cute two others.

The initial symptoms are hoarseness cough, dispners and displaying. A positive diagnosis is established only by the discovery of the blastomyces in smears of the sputum or secretions. The condition must be differentiated from lary ngeal tuberculosis in which tubercele health cannot be found.

In the treatment potassium todide gives good results not only because of its effect on the blasto mycotic lessons but also because of its selective action on the lary ngeal mucosa

CFORCE K MC LLEEF MD

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Conway, J A Two Cases of Cerebral Aneurism Causing Ocular Symptoms, with Notes of Other Cases Bril J Ophth, 1926, x 78

In the diagnosis of cerebral symptoms the pos sibility that an aneurism of a cerebral vessel may be the cause is rarely taken into consideration. In some cases such an aneurism may give rise to no symptoms that can be recognized clinically and in many it causes death so suddenly that there is no opportunity for a study of the prodromal symptoms Age gives no clue as to its probable presence or absence as it may occur at any age There is no particular diathesis or constitutional state which favors its development, suggests it, or differentiates it from other cerebral neoplasms

Osler found twelve ca es of cerebral ancurism in 800 autopsies at the Montreal General Hospital, and Newton Pitts found nineteen in 9 000 inspections at Guy's Hospital, London Bradford believes the con dition is not uncommon, and Fearnsides says "The presence of a saccular aneurism on one of the basal cerebral arteries at necropsy is one of the commonest

pathological findings "

Conway found forty three cases of undoubted cerebral aneurism among 6 325 sections Twenty four of the subjects were males The oldest was a man of 72 years and the youngest a young boy Ten of the subjects were under 25 years of age The great majority died from sudden apoplexy without any prodromal symptoms Fifteen showed some warning cerebral symptoms, usually headache and vomiting, but in only seven of these fifteen did the symptoms precede death by more than a few days With the exception of four, all died from rupture of the aneurism Three died from rupture of another cerebral vessel and one from intracranial pressure Many of the subjects howed ocular symptoms after the onset of cerebral hamorrhage. In no case was the pre ence of a cerebral aneurism suggested as a possible cause of death. A statement regarding the Wassermann reaction was made in only a very few of the case records This is explained by the fact that the majority of the patients were admitted to the hospital in coma and soon died. In only a few of the records was there any mention of syphilis of the vessels The vessel most frequently affected was a branch of the middle cerebral artery Two vessels were affected in only two cases

The author believes that cerebral aneurisms are of congenital origin. In twenty five of his cases there was no sign of vascular or cardiac disease and no evidence of any other causal agent

STANLEY J SEEGER, M D

Towne E B Invasion of the Intracranial Venous Sinuses by Meningioma (Dural Endotheli oma) Ann Surg 1926 lexxus 321

Meningiomata (dural endotheliomata) are encapsulated non metastasizing tumors which frequently invade the dura and the overlying skull and compress but do not invade the brain. When they are excised with the involved dura and skull they do not recur The bone proliferation helps to localize a tumor over a silent area and is not a serious com

plication if the region is accessible to surgery

Meningiomata arise from nests of arachnoid cells and often from those which accompany the arachnoid villi that pierce the dura and project into the venous sinuses. The author has been able to find in the literature only one case of tumor invasion of a vein-a case reported by Cushing In Cushing's case the growth arose from the wall of the superior longitudinal sinus and invaded the vein without causing thrombosis Towne reports two cases

In Towne's first case there was a bilateral parasagittal meningioma which compressed the frontal lobe proliferated in the overlying skull and invaded and occluded the superior longitudinal sinus. The tumor was removed in two stages Death occurred

three months later

In the second case reported by Towne a meningi oma of the falx cerebri invaded the inferior longi tudinal sinus extended into the straight superior longitudinal and right and left lateral sinuses the left internal jugular and innominate veins and the superior yena cava, invaded the perivascular tissues and caused sudden death This case demonstrated that invasion of the venous system may convert a meningioma which is otherwise favorable for surgery into an irremovable tumor

Towne concludes that an examination of the ad jacent venous sinus is indicated in cases of tumors involving the dura WALTER C BURKET, M D

Taylor A S Partial Neurectomy of the Sensory Root of the Gasserian Ganglion in Trifacial Neuralgia with Preservation of Corneal Sensa tion Ann Surg 1026 laxxiii 106

Frazier estimates that a postoperative keratitis develops in greater or less degree in 10 per cent of all patients subjected to complete sensory root neurot omy and believes that in a certain additional per centage of cases corneal complications develop after the patient leaves the hospital Among the causes of this serious complication are the frequent trauma ta to an insensitive cornea, the drying of the eye following loss of function of the lachrymal gland, 'trophic" changes after injury to the ganglion or the ophthalmic nerve, the loss of the protection af forded by the upper lid in those occasional un

explained cases of paralysis of the seventh nerve and disturbances of the little understood sym pathetic innervation

The problem of preserving the corner has been an e pecially acute one in the Peking Clinic China, because of the fact that many of the patients are poor and unable to carry out the directions given Woods suggested that in suitable cases an attempt be made to divide the posterior root partially severing only the fibers supplying the second and third divi sion of the nerve and conserving at least a part of the bundle of fibers which make up the first division He cilled attention to the fact that in every large nerve the component fasciculi occupy definite posi tions in the nerve trunk and that the filers in the posterior root of the trigeminal supplying each main division of the nerve always he in fixed positions those surriving the first division of the nerve being "bove and medial those to the second branch next lower and those to the third branch, lowest and most lateral

The procedure suggested by Woods was carried out by Taslor in three cases in Peking before Francier's reports were first seen by him I rizier in a personal commin retains to the author mentions un mubbished work on the embrood by of the norty which shows that the first division develops as a septrate near Theresulfso ubtotal division of the posterior root of the ganglion indicate that the function of the ophthalmic division may be retained after permanent do truction of the second and third hearches.

In the author's three ceaes the near dgia was most pronounced in the maxill iry nerve. In addition to subtotal division of the posterior root, the second division was divided district to the ganglion.

STANLEY I SEEGER M.D.

Sachs E The Radical Treatment of Trigeminal Neuralgia J Wester State W t 1926 xxiii 43

Sachs uses one of two methods of treatment in trageminal neuraliza either alcohol jung-timo or radical operation on the josterior root of the ganglion Ile states that peripheral estructions of the nerveare disfiguring and only palliative and offer do not afford nearly as much or as reduring relief as the alcohol injections. When only one branch of the nerve is involved an alcohol injection should usurilly be tried first. As the result of a satisfactory injection the area supplied by the nerve injection becomes the nerve in the production of the production of the cutensive as the aimsthesia produced by a ganglion pertation. In only one of two instructs has an alcohol injection given permanent relief as a rule the pain returns visiths from one to two years.

Sachs believes that the attempt to save the fibers of the ophthalme division to word amendment of the cornea is a very questionable procedure not only because some of the fibers of the second division may be left uncut but also because pain may develop in the first branch when the two others have been destroyed. Four of his patients developed

facial paralysis after division of the posterior root of the fifth nerve. Although they all recovered from the paralysis, the eye on the affected side was endangered.

Following complete division of the posterior root pain temperature and touch perception is lost but this los does not extend over the entire area supplied by the fifth nerve because, as there is considerable overlapping by the cervical rerves sensation in the middle of the cheek remains quite In some of his earlier cases Sachs was disturbed by this fact believing it to indicate that he had left some of the third division fibers. In six cases he therefore re operated but in every instance found that he had cut all of the fibers Even when pain temperature and touch percention is lost the deep pressure sense remains in the area supplied by the fifth nerve. This form of sensation is carried through the seventh nerve which is of course un disturbed by the operation. Suchs has performed sevents one operations for division of the posterior root of the gasserian ganglion in sixty five patients, with no deaths

He does not believe that there is any advantage in the use of local an esthesia in these cases STINLEY I SEEGER M.D.

Singleton A O Glossopharyngeri Neuralgia and Its Surgical Relief Inn Surg 1926 lxxxii 338

Glossophiringeal neuralga, is so similar to tractal neuralgit in the character of the pain and the duration of and interval between the affricks that roost cases are treated with ricoholic injections of the gas crian ganglion or even section of the posterior root of the ganglion before suspicion as to the true nature of the condition is aroused by the failure of these measures to give relief. In Singlicton's opinion this error is due to the failure of the condition is not of textbooks to mention glossophary ngeal neuralgia and the fact that only livently one cross have been reported in the literature.

The pain of glos ophars need returnlers at the tributed to the tomality region oral pharsay and ear, with a trigger zone in the tonsillar fossa. The darticks of pain occur chefty, in the region of the tonsil and pharjax radiute to the ear on the stime side and are provisional and very severe. The pain is induced by swillowing or stimulating the pharjax but not by ribbing the free (fifth ever).

The injection of alcohol cannot be considered in the treatment of glossophiny neged neuralga because of the close provimity of the vagus and the large blood vessels. Extracromal evul ion of the nerve as done by Adson seems to give relief over a long partod of time but the operation is complicated and dusficult. In Singkton is cuse a 3 in incision was made along the anterior border of the strinomystoid muscle from the ear downward the sterinomistoid muscle from the ear downward the ingiodical view in lighted and cut, and the posterior bully of the digastics isolated. The privide gland was then pulled forward the stylohyoid muscles with the posterior belly of the digastic retracted forward and backsand and

the external carotid artery behind and above these muscles pushed backward. The stylopharyngeus muscle was then visible beneath the angle of the jaw and above the retracted stylohyoid muscle. The glossopharyngeal nerve, which appeared as a white thread along the lower and anterior border of the stylopharyngeus muscle was grasped and avulsed and the wound closed without drainage.

In intracranial division of the nerve as described by Adson an incision is made as for unilateral cere bellar decompression, extending from the spine of the atlas unward to the external occipital protuberance and laterally in a horseshoe shaped curve to the tip of the mastoid The flap of skin and muscle is then reflected and the bone is removed upward and later ally to expose the lateral and sigmoid sinuses and mesially and downward until the external occipital crest, the posterior condyloid foramen and the margin of the foramen magnum are approached The dura is then incised and reflected mesially, and the cerebellar lobe protected by cotton strips is ele vated with an illuminated elevator Drainage of the posterior cistern or the posterior horn of the later al ventricle may be necessary to displace the cerebel lar lobe easily After elevation of the cerebellar lobe the seventh and eighth cranial nerves are seen enter ing the internal auditory meatus. Inferiorly and somewhat more superficially, the ninth and tenth nerves which are short, pass almost at right angles from the medulla The spinal accessory nerve which is longer, enters the foramen in the upper part and is separated from the vagus by a small dural band less than 1 mm wide At this point a small right angled ganglion knife is passed between the fibers of the vagus and glossopharyngeal nerves and the glossophary ngeal nerve is sharply sectioned

Singleton's patient has been relieved up to the time of his report WALTER C BURKET, M D

SPINAL CORD AND ITS COVERINGS

Stetten, DeW An Extramedullary Tumor of the Spinal Cord Simulating Abdominal Malignan cy Ann Surg 1926 lyxxni 285

Stetten reports a case of intradural extramedullary neurofibroma of the spinal cord at the twelfth tho racc segment. The diagnosis was extremely difficult, the symptoms suggesting an intra abdominal malignant lesion. Although the data of numerous previous examinations were available, it was impossible to arrive at a definite diagnosis before nearly two mouths of the most careful observation. At operation a timor measuring 1½ by ¾ by ½ in was easily shelled out without damage to the cord. Complete recovery resulted. STANLEY | SEGER, M.D.

PERIPHERAL NERVES

Thearle W H Radical Phrenicotomy for Tuberculosis J Am W Ass 1926 lxxxvi 811

This article is based on sixty two cases of pul monary tuberculosis treated by radical phrenicotomy

during the last thriteen months. In all of these cases the disease was chronic and the lesions were advanced. In sixteen, the phranicotomy was performed as a supplement to thoracoplasty, and in eleven as a supplement to artificial pneumothorax. In thirty five, it was done as an independent procedure. Fifty per cent of the patients were benefited, and in 10 per cent the improvement was marked.

Thearle agrees with those thoracic surgeons who warn against the independent use of phrencotomy in advanced pulmonary tuberculosis but beheves with Alexander that in some cases of early tubercu losis in which the lesions are mainly unilateral and sanatorium care alone fails to cause improvement it will effect a cure. He concludes from his experience that radical phrencotomy is especially advantageous when it is performed in conjunction with artificial pneumothorax and extrapleural thoracoplasty, and is the surgical procedure primarily indicated in unilateral phthisis with predominantly basal lesions

STANLEY J SEEGER M D

Davies H M Phrenic Evulsion as an Aid in the Treatment of Pulmonary Tuberculosis and Bronchiectasis Brit M J 1926 1 315

According to Felix, the phrenic nerve may receive fibers from the nerve to the subclavian muscle and from the hypoglossal, spinal accessory, vagus, or suprascapular nerves, either directly or through the ansa hypoglossi. In from to to 25 per cent (68 per cent according to Goetze) of persons there is a double phrenic nerve. The accessory phrenic nerve originates from the fifth cervical lies 3 cm lateral to the true phrenic and frequently runs close with the subclavian nerve to the thorax. If enters the thorax in front of the subclavian ven and joins the true phrenic nerve either where the scalenus anticus attaches to the first in bor at a lower point.

After section of the phrenic nerve, diaphragmatic tone is completely lost, and when one half of the diaphragm is paralyzed the \times ray shows the dome to be raised in the thorax On the right side the clevation may be from 4 to 8 cm, and on the left side from 2 to 4 cm. The initial rise is increased during the ensuing weeks as the muscle atrophies

The rise is due partly to the intrathoracic negative pressure, but mainly to the upward force verted from the abdomen by the abdominal muscles. When respiration is quiet, the paralyzed dome is immobile. During deep breathing it may rise still higher on inspiration and sink back with expiration (paradoxical movement). The paralysis prevents the diaphragmatic pull on the lung and expansion of the lower lobe. When the disease is localized to the base of the lung it produces a partial collapse of that portion, the degree depending upon the extent of adhesions in the costophrenic sulcus. The rest given the lung and the collapse of its base diminish the towns thrown into the circulation.

Operations to insure complete paralysis of the dome of the diaphragm are the unpopular Goetze operation consisting in division of the nerve as low

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as possible by a long incision made along the poste rior border of the sternocleidomastoid muscle so as to cut off sympathetic fiber to the inferior cervical ganglion exposure of the fifth cervical root through the upper part of the incision and division of the subclavius nerve and phrenic nerve evulsion sucgested by Thiersch and first done by Telix which consists in division of the nerve in the neck with twisting and evulsion of the peripheral end from the thorax If the nerve is completely expliced the ter minal branches are plucked from the diaphragm but the nerve often breaks at some intrathoracic point

The dangers of evulsion of the phrenic nerve (largely theoretical) are (1) rupture of the nerve proximal to its juncture with the acce sors branch (2) bleeding from the pericardiophrenic artery (one case) (4) dragging on the subclavian vein by the accessory phrenic loop (4) rupture of adherent pleura and (5) evulsion of the vagus nerve (four cases reported in the literature)

The indications for evulsion of the phrenic nerve

- To arrest basal tuberculosis and bronchiec tosis
- In association with thoracoplasty to arrest more extensive pulmonary discase
- 3 To assist in controlling more generally exten sive advanced or acute pulmonary tuberculosis 4 As an accessory to artificial pneumothorax in
- the presence of diaphrigmatic and pulmonity ad besions or before a lung which has been collapsed for a long time is permitted to re expand. When the dome of the diaphragm is paralyzed effusions are less frequent and gas absorption is diminished
- 5 For symptomatic treatment larglysis of the diaphragm makes coughing caster and expectoration freer with consequent reduction of pyrevia and improvement in the general condition. Sauerbruch successfully treated hiccough by lateral diaphrag

matic paralysis

6 As a preliminary to thoracoplasty to test the ability of the healthier lung to do increased work to improve the general condition and to prevent the development of catarrhal signs in the lover lobe

As a preliminary to the radical treatment of tuberculous empyema to reduce the size of the pleural cavity so as to lessen the extent of the sub sequent operation

To prevent bronchiectasis after the imperfect

resolution of pneumonia a To free the heart from the embarrassment sec ondary to extensive pulmonary abrosis and pleuro

pericardial thickening The author removes the phrenic perve under local anæsthesia induced with 1 per cent novociin. The skin incision is made for a distance of a in along the posterior border of the sternocleidomastoid or transversely 2 in. above the clavicle two thirds being lateral and one third mesial to the sterno clerdo mastord muscle. The skin platysma and fascia are divided the sternocleidomastoid is re

tracted mesially, the omohyoid is retracted down ward and the fat glands and deep cervical fascia of the scalenus anticus over which the phrenic nerve normally crosses obliquely from above downward and messally are dissected Care is taken to avoid displacing the nerve with the fascia. The internal jugular vein is retracted to one side. The lower end of the wound is crossed by the superficial and supra scapular vessels. The phrenic nerve may cross the scalenus lower or higher in the neck or run in the substance of the muscle

The nerve is divided at the highest point exposed traction being made with the forceps on the perioh eral end Wells forceps are applied on each suc ceeding length of nerve to prevent retraction in case the nerve should rupture immediately below the traction forceps. When to cm of the nerve has been vithdrawn an extra pull will probably tear the filaments from the diaphragm and bring away the entire nerve. The patient experiences a sudden jerk at the base of the chest and may gasp and the pulse rate may be accelerated. After the evulsion of the nerve the wound is closed in lavers

In one case the removed nerve trunk was to cm iong and the main branch 10 cm making a total length of 40 cm In another case the trunk measured 20 cm and the branches 17 cm a total of 46 cm. Generally the total length is 11 or 12 cm. In three cases after the first 6 in appeared the arterial pulsation was so strong that the nerve was divided as

low as possible without any further traction The author reports briefly twenty cases of evulsion of the phrenic nerve. He has performed the operation also in fourteen others

WALTER C BURKET M D

SYMPATHETIC NERVES

Winslow N Perlacterial Sympathectomy Ann Sure 1026 laxun 333

In periarterial sympathectomy from 13/2 to 2 in of the outer coat of the artery is removed. Encircling incisions are made around the vessel at the upper and lower limits of the site chosen for denudation and are connected by a conveniently placed vertical in The cuts if too deep may lead to a trau matic aneurism. The tis ue outlined is stripped off either as a single piece or in thin slices. According to Leriche the break in the continuity of the periarte rial sympathetic plexus is followed by dilatation of the vascular tree distal to the decorticated area and an increase in the blood supply with consequent improvement in the condition of the part

The author performed a persarterial sympather tomy four times on three patients-three times for thrombo angutis obliterans with gangrene of the toes and once for Ray naud a disease of the foot The oper ation had no effect on the progress of the disease as an amputation was necessary subsequently in every case The fadure was not due to faulty technique because in every instance the artery contracted to a mere thread throughout the entire extent of the

denuded area and ceased to pulsate both to sight and to touch distal to the operative site, a sign which, according to Lenche is proof that the decortication

was properly done

In Winslow's opinion the information obtained from the cases so far reported is insufficient to decide the acceptance or rejection of penartenal sympa thectomy The operation seems worthless in senile gangrene ascending neuritis, and erythromelalgia The results are more favorable but undependable in causalma and trophic ulcers. Although the operation is one of the best indirect methods of securing the prompt cure of varicose ulcers (Jeanneney and Mathey Cornat), the cause of these lesions is unaffect ed and recurrence is likely. Palma produced trophic ulcers in does by section of the sciatic nerve Sympathectomy of the femoral artery did not hinder the appearance of, nor heal, these trophic ulcers In Palma's opinion, the retraction of the sleeve of cicatricial connective tissue which is formed in the arters interfered with the arterial function and led to decrease in the blood supply to the parts distal to the operative site. In some cases an obliterating endartentis resulted from the vessel wall injury

WALTER C BURKET M D

Sebestyen G The Effect of Periarterial Sympathectomy upon the Circulation of the Blood (Die Wirkung der periarteriellen Sympathektomie auf den Blutkreislauf) Orrosi heil 1925 Inv 957

In experiments on dogs and rabbits Sebestyen exposed the femoral arteries and veins on both sides

and on one side performed a typical periarterial sympathectomy according to the method of Leriche and Bruening The artery on the other side was left undisturbed. He then ligated and cut the veins on both sides and introduced a cannula into the periph

eral stump It was found that the blood stream on the side on which the sympathectomy was performed was mark edly slower than that on the other side. In does the flow in the side not operated upon was r cm of blood in from eight to ten seconds, whereas in the side operated upon it was r cm in from sixteen to eighteen seconds. When the adventitia was not removed with the knife, but was destroyed by furning nitric acid or carbolic acid, the blood flow was not retarded, al though the disturbance in the wall of the blood vessels caused by this method extended much more deeply than that caused by the Leriche and Bruening procedure It therefore appears that the diminution in the speed of the blood stream is due to a spasm of the vessel caused by the tranmatic insult associated with the stripping off of the adventitia. This effect is transient, however, and followed by dilatation of the vessels and hyperæmia

A study of the hydrogen ion concentration of the blood showed the values to be decidedly decreased in the sympathectomized extremity, falling, on the average from 8 7 to between 7 x and 6 9. This decrease was most marked at the end of the second week. At the end of the third week the differences between the two extremities had disappeared

Pólya (Z)

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Cysts of the Breast A Statistical Bunts F E Study Ohio State V J 1926 xxii 09

From a review of the recent literature on cysts of the breast and his experience with 375 cases of this condition Bunts draws the following conclusions I It is probable that all cystic conditions of the

breast are due to the same primary causes therefore a classification of benign cystic conditions is of neither etiological nor clinical importance 2 It is possible that the same etiological factors that produce cystic conditions of the breast also produce carcinoma but there is no final evidence at

the present time that cysts of the brea t per se are

proemial in character 3 It appear evident that at least in certain cases cystic conditions of the breast in common with other types of benign tumors may be due to intes tinil toxemia 4 The indicated treatment of cystic conditions

of the breast may be summarized as follows

A In cases of diffuse chronic cystic mastitis in women under 30 years of age a waiting policy may be adopted After the age of 30 years the breast should be examined at intervals of not more than six months to determine whether there are signs of a recurrence of the cysts or the initiation of a malig nant growth

B Single cysts should be removed and subjected to histological study. If the growth proves to be benion nothing further need be attempted but the patient should be examined at frequent intervals to determine whether there is a cyst elsewhere in the

same breast or in the other breast 5 In the presence of a cystic condition of the

in mind

breast the possibility of carcinoma should be borne RALPH B BETTMAN M D

Fischer W The Clinical and Pathologico Ana tomical Diagnosis of Tumors and Cystic Changes in the Breast (Ueber the klinische und pathologisch anatomische Burteilung von Ge schwuelsten und cystischen Veraenderungen der Brustdruese) Deutsche Zischr f Chir 1025 CXCH 1

In the period from April 1922 when Fischer took over the direction of the Pathological Institute at Rostock up to May 1 1925 he received 3 337 speci mens of pathological material for diagnosis. Among these were 300 breast specimens. One hundred and fifts one of the latter showed carcinoma seventy one fibro adenoma ten diffuse fibrosis thirty two. cystic disease twenty one cystic disease and car cinoma four tuberculosis one sarcoma fibroma two adenoma one simple ulcer and two normal breast tissue

The diagnosis of the clinician and pathologist agreed with regard to 160 specimens (55 per cent) The clinical suspicion of malignancy was confirmed in thirty seven (12 per cent) but disproved in sixty two (21 per cent) The clinical diagnosis was a be nigh condition but the anatomical diagnosis was malignancy in seven cases (2 3 per cent) The clini cal diagnosis was uncertain and the anatomical diagnosis was a benign condition in twenty eight cases (o per cent) Accordingly the chief error was the assumption of the presence of a malignant process

The cases of unrecognized carcinoma included three of carcinoma associated with cystic disease of the breast two cases of Paget's disease which were diagnosed clinically as ulcer and eczema and

two cases of fibroma

As the specimens came from various clinics and general practitioners they were not uniformly diagnosed as was the material of MacCarty of the Mayo Clinic Nevertheliss Fischer's and Mac Carty s figures agree well with regard to the diagnosis of malignant tumors. In Fischer's benign cases the diagnosis was correct in only 58 per cent

Fischer believes that the macroscopic diagnosis of carcinoma is possible in 85 per cent of the cases

Cystic disease of the breast was found by Fischer in fifty three of the 300 specimens. Most of the subjects were in the fifth decade of life. The young

est was 28 years and the oldest 65 years

In twenty one of the specimens of cystic disease carcinoma was found al o In about half of the cases Kaufmann's so called perforating prolifera tion was present. In five the tumor was an adeno carcinoma in 51% a carcinoma simplex in two a scirrhous carcinoma in four a cornifying carcinoma in one a colloid carcinoma, and in two a papillary carcinoma. In twelve of these twenty one cases the diagnosis was made clinically. In six carcinoma was suspected and in three it was not suspected

In the cases of non carcinomatous cystic disease the condition was diagnosed as benign in sixteen as malignant in thirteen and as fibroma in three Accordingly carcinoma was suspected in 40 per cent of the cases of benign cystic disease and in 21 per cent of the total number of cases From this it is evident that the diagnosis is very difficult Car cinoma developed in 40 per cent of the cases of

cystic disease of the breast

Fischer discusses the fact that today, cystic mastitis is considered an involutional process. This theory best explains it and its relation to fibrosis It is of course possible that carcinoma and cystic disease of the breast may develop simultaneously as distinct entities Cystic disease of the breast may be also the result of a carcinoma since the penetration

of the cancer may obstruct the excretory ducts and the gland ducts and thereby cause the dilatation It is more probable, however, that the formation of cysts to the cause of cancer formation. This is in dicated by the transition of normal epithelium to atypical epithelial proliferation and to carcinoma and also by certain surgical and other pathological findings

TRACHEA, LUNGS, AND PLEURA

Four Cases of Tracheal Tumor J Laryngol & Otol 1926 dl 174

The author is inclined to believe that while pri mary tracheal growths are rare, they are more common than is generally supposed. He reports four cases Three of the patients were women between the ages

of 18 and 40 years

Dyspnœa, cough, and occasional hæmoptysis sug gest asthenia and tuberculosis, but an apparently good general condition and the absence of obvious intrathoracic signs and of tubercle bacilli suggest tumor in the tracheobronchial tree and demand endoscopy Because of the occurrence of necrosis after radiation it is questionable whether radiation is advisable when surgical treatment is possible

GEORGE R MCAULIFF M D

Lorey The Value of Contrast Media in the Bronchi for the Demonstration of Bronchiectases (Ueber den Wert der Kontrastiuellung der Bron chien zur Darstellung der Bronchiektasen) Fortschr a d Geb d Roentgenstrahlen 1925 xxxiii 58

In twelve cases the author filled the bronchial tree with contrast media as proposed by Sicard and For estier and found that by this means very satisfactory

roent, enograms could be obtained

After the induction of anæsthesia of the pharynx and larynx and the administration of morphine, a thin tube with a metal olive at its end, similar to a duodenal tube, was introduced into the traches and glided through the vocal tubes into a bronchus under the control of the laryngeal mirror and with the patient in the upright position. An injection of from 25 to 60 c cm of a 40 per cent iodipin solution was then made The bronchi of the upper, middle, or lower lobes were filled by causing the patient to assume different positions during the injection

In none of the cases was this procedure followed by aspiration pneumonia or other complication. On the contrary, the injected iodipin had such a favor able influence upon the severe catarrh that the author believes it probable that other substances might be introduced into the bronchi in this way for

therapeutic purposes

The injected contrast medium is usually coughed up completely within twenty four hours but in some cases a small residue may remain in the bron chus for several weeks

In spite of the high iodine content of the contrast medium, Lorey has seen only one case of iodism In this case the condition lasted for two days

Lorey believes that the use of contrast media in the bronch; should be limited to cases in which it will be of considerable diagnostic and therapeutic value, such as cases of bronchiectasis in which an indication for operation is to be established Bernstein (Z)

Escudero, P Terrada H M and Gallino M M Visualization of Hepatobronchial Fistulæ by Retrograde Filling with Iodized Oil (Visuali zacion de las fístulas hepatebronquiales por relleno retrogrado con aceste sodado) Arch argent de en ferm d apar digest , 1925 1, 189

In a case of suppurated echinococcus cyst with a bronchial fistula the author injected to ccm of lipiodol into the cyst through the ninth intercostal space Roentgenograms were then made with the patient in the standing position, in dorsal decubitus,

and in the Trendelenburg position

In the standing position the contrast material was shown collected in the irregular pockets in the bottom of the abscess pouch. In dorsal decubitus it showed the extent, shape, and location of the abscess With the patient in the Trendelenburg position, the plate exhibited, after fifteen minutes, the long irregular unbroken course of the fistula leading to the bronchus and presenting at its termina tion or entrance into the bronchus an ampulla like dilatation After a further lapse of fifteen minutes it showed filling of the bronchus as far as the main bronchus and in addition, filling of several of the branches of this bronchus The last roentgenogram, which was made with the patient in the dorsal de cubitus after a fit of coughing showed the right bronchial tree and the abscess cavity practically empty only the terminal portion of the fistulous tract with its ampulla, was visible Other shadows scattered about the right lung were due to a previous attempt to fill the tract of the fistula from above by the method of Sicard and Forestier

JOHN W BRENNAN, M D

Jackson C Suppurative Diseases of the Lung Due to an Inspirated Foreign Body Contrasted with Those of Other Etiology Surg Gynec & Obst. 1026 xls 305

Pulmonary suppuration starting endobronchially and due to the presence of a foreign body is such a mild slow and restricted process as compared with embolic post pneumonic and post influenzal sun purations and manifests such a tendency toward prompt and complete recovery after removal of the foreign body as to suggest the presence of some sort of physiological or structural barrier against the invasion of suppurative processes by the endobron chial route

These characteristics of foreign body suppuration are most marked in cases of metallic foreign bodies, which seem to possess germicidal powers. Minus the germicidal powers they are present to a less degree also in cases of other kinds of foreign bodies. They are least apparent in cases of vegetable foreign bodies, but even in these the prompt recovery which

almost always occurs if the foreign body has not been long in the tracheobronchial tree is in marked contrast to the course of lung suppuration due to any other cause than foreign body

Complete recovery in a large series of cases of foreign body suppuration of from ten to thirty six years duration with no other treatment than the removal of the foreign body is so different from the course of pulmonary suppuration due to other causes as to call for a separate classification of sup purations produced by endobronchial foreign bodies

Boldero H E A and Whitby L E H Associated Organisms Causing Empyema Lancet 1926 ccx.

The authors report a case of empyema in which two organisms were associated in the production of the condition the one a mycelium and the other a pneumococcus Alone neither of these organisms was pathogenic to guinea pigs but together they always produced lesions Clinically the striking feature of the case was the chronicity of the con The empyema probably began after an attack of pneumonia which occurred five months before the patient came under the author's observation During the three months the patient was in the hospital he was never very ill and at no time showed marked signs of toxamia

RALPIT R RETTMAN M D

GESOPHAGUS AND MEDIASTINUM

Key E Obstruction of the (Esophagus by a Calci fied Intrathoracic Gland (Passagehindernis in der Speiseroehre durch eine verkalkte intrathorakale Druese) Hygica Stockholm 1925 izzevii 772

In the case reported in this article there was rapidly developing dysphagia The roentgenogram showed a shadow the size of a plum and compression of the esophagus to the diameter of a lead pencil Because of the rapidly progressive loss of weight operation was undertaken with the aid of a positive pressure apparatus the Tiegel Henle method

In front of the esophagus at the upper margin of the lower portion of the trachea a grayish white tumor the size of an apple was found between the layers of the plcura In attempts to peel it out the thin capsule was torn. The contents consisting of crumbling masses were scooped out. The capsule which was closely bound to the medial aspect of the pleura was successfully separated except for a very small portion adherent to the trachea The operation was followed by uneventful recovery with complete relief of the dysphagia

The capsule of the tumor consisted of connective tissue Although no tubercle bacilli were found the tumor was considered to be a calcified tubercu lous lymph gland because the \ ray demonstrated old tuberculous changes in the lungs Gerlach (Z)

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

ray H T The Rôle of the Mesentery in Vis

When an inflammatory process involves the mesen tery there is irritation of the pacinian corpuscles and the efferent and afferent nerves. It is because of this involvement that acute appendicitis is accomprised by pain which produces guarding by abdominal rigidity and by inhibition of the mobility of the bowel which allows rest of the inflamed part. When this active inhibition is prolonged, parally its cleus is produced which causes a rise in the intra abdominal pressure followed by impairment of the circulation as the result of pressure on the veins of the mesen tery. In the treatment it is therefore necessary to diminish the intra abdominal pressure, as by gastric layare and temporary ileostomy.

Interference with the venous return may produce stercoral ulcers on the anti misenteric border the capillary area most remote from the main vessels Similarly, distention of the first part of the duode num may cause duodenal ulcer, and tension on the stomach may produce local anæmia followed by ulcer formation the location of which is dependent upon the type of distention or tension on the blood

vessels

The mesentery is not normally a supporting structure for the viscera. The two mechanisms of visceral support are (t) certain fixed points and (e) intra aludomial pressure. The latter is main tained chiefly by the musculomesentence reflex which varies with the degree of fixation. When there is a breakdown of the normal visceral support the mesentery assumes this function, the resulting tension on the nerves, blood vessels, and lymphatics causing progressive and far reaching symptoms. The treat ment should be directed toward protecting the mesentery from undue strain. Frequently, this protection can be given only by surgical reconstruction of the defective mechanical support of the viscera.

GASTRO-INTESTINAL TRACT

LeWald, L T Roentgen Diagnosis of Syphilis of the Stomach Radiology 1926, vi, 138

The author believes that the value of the roent gen ray in the diagnosis of syphilis of the stomach should be emphasized particularly because the other findings are likely not to be conclusive

The presence of a mass achlorhydra and weight loss should never lead to the diagnosis of gastric cancer unless there are unmistakable roentgen signs of carcinoma. On the other hand, a negative Was sermann reaction and the absence of a history or

signs of syphilis do not exclude the possibility of syphilis

The roentgen findings of syphilis of the stomach

are the following
r Diminished size with rapid emptying of the
stomach and often a compensatory dilatation of the
cesonhagus

2 A fairly symmetrical deformity, often produc

ing a dumb bell appearance

3 A small tubular stomach, commonly spoken of as limits plastica"

4 A filling defect more extensive than that of simple ulcer and very similar to that of carcinoma

While definite proof of syphils of the stomach resupon the finding of the spirochata pallida in the lesion the roentgen evidence is usually sufficient for a tentative diagnosis. The diagnosis is quickly confirmed by the prompt improvement of the roentgen signs and the symptoms under anti syphilis treatment. Unnecessary resection of the stomach will therefore be avoided.

One case is cited in which the diagnosis was established by gastroscopic examination with the removal of a section for microscopic examination

CHARLES H HEACOCK, M D

Lenk R Ulcer Therapy as Tried on Niche Ulcers (Ulcustherapie erprobt an Nischenulcerna) Strahlen therapie 10 5, xx 103

The author reviews 100 cases of gastric or duo denal ulcer which were treated with the roentgen ray Definite improvement resulted in 90 per cent, and six of the patients have remained cured for years. In all of the cases so treated the presence of an ulcer was demonstrated roentgenologically without doubt. No other treatment besides the roentgen irradiation was given.

Untoward general phenomena were either entirely absent during the irradiation or only triv al. The ulcer symptoms that disappeared first under the roentgentherapy was the spontaneously occurring spasmodic epigastric pain. The pressure sensation at the site of the ulcer persisted somewhat longer The cessation of epigastric pain is attributed to the spasmolytic action of the rountgen rays The hyper acidity decreased slowly Hæmorrhages were fre quently arrested, an effect attributed to the simul taneous irradiation of the spleen and liver spastic obstipation often associated with ulcer usual Not infrequently, the ly ceased spontaneously niche seen in the roentgenogram soon disappeared Spasm of the circular muscle fibers at the level of the ulcer frequently persisted for a long time Cicatricial processes were not influenced

From one fourth to one third of an ery thema dose was given over an area of the abdomen and an area

of the back on four successive days with the use of a zinc filter from 0 3 to 0 5 mm in thickness a 28 cm spark gap and a focal distance of about 30 cm SILBERBERG (Z)

Carman R D The Roentgenological Diagnosis of Peptic Ulcer Texas State J M 1026 Xm 500

The one sign on which the diagnosis of gastric ulcer can be made with confidence is the roentgeno graphic demonstration of the crater of the ulcer the niche or its exaggerated form the accessory pocket In favorable situations as for example on or near the lesser curvature the niche is visible as a local prominence on the gastric silhouette ulcer is on the posterior wall the niche may be brought into view as a local density when the gastric walls are approximated by palpation. The accessory pocket usually projects markedly from the lesser curvature and is not apt to escape recognition

Secondary signs of gastric ulcer include retention from the six hour meal which occurs in about half the c. es or anic or spastic hourglass stomach and spastic distortion of the pyloric segment Secondary signs are corroborative but none is diagnostic Ulcers with niches having a diameter of 25 cm or more are likely to prove malignant those with craters which do not project beyond the gastric out line and are surrounded by a high overhanging ridge are invariably malignant. On the other hand an ulcer which has all the ro-ntgenological character istics of a simple ulcer may reveal cancer cells on microscopic examination

Bulbar deformity is the most common manifesta tion of duodenal ulcer. In some cases a definite niche can be distinguished. When oh truction re sults from duodenal ulcer it may be impossible to fill the bulb and visualize it satisfactorily. In such cases the combination of retention and hyperperi stalsis is diagnostic if the stomach is large and of normal contour

Caylor H D The Healing of the Gastric Ulcer in Man Ann Surg to 6 large 1 350

The first stage of gastric ulcer is probably the acute hæmorrhage in the mucosa and submucosa which grossly may appear as only a red spot with a slight break in the gli tening membrane. Microscopically there is a def ct in the epithelium with free blood in the excavation and adjacent tissues. This early ulcer is usually cone shaped the apex of the cone being toward the muscularis and the base at the lumen of the tomuch

The second well known picture of gastric ulcer is the chronic U shaped lesion the walls of which are composed of fibrous connective tissue infiltrated with lymphocytes plasma cells leucocytes and mast cells The base of the detect contains connective tissue and occasionally an organizing fibrinous caudate granu lation tissue and necrotic material

Blood vessels in the deeper tissues of the wall onnosite the defect may be thrombo ed or contain canalized thrombi At the edges of the ulcer the epithelial cells flatten and attempt to cover the denuded area

In the final stage after the gastric ulcer is healed there is a pale pink to gray scar covered by mucous membrane The epithelium topping the scar is a thin layer of cuboidal and columnar cells Just beneath this layer are deformed cystic glands and surrounding these there is fibrous connective tissue infiltrated with inflammatory cells. The muscularis is replaced by fibrous tissue

The author describes the pathological appearance of a duodenal ulcer excised at operation which measured 6 by 3 by 1 mm In the base of this lesion there was an organizing fibrinous exudate the edges of the cavity the epithelial cells were flattened and apparently attempting to grow down and cover the excavation The gastric ulcer revealed unusual changes. In the base of the cavity and almost filling it was a raised gray to pink area. Im mediately after it was photographed the ulcer was put into 10 per cent formalin and later serial sections were cut Preparations from the margin of the excavation contained a raised plateau 'or mushroom ' of granulation tissue covered by a single layer of flat tened gastric epithelium. Acarer the center of the ulcer there was a definite break in the mucosa with an organizing hamorrhage in the ulcer cavity Con tinuing toward the center of the ulcer more advanced organization of the blood clot was revealed with the development of blood vessels in the clot and the adjacent to sue in the base of the ulcer. A definite plateau had developed in the ulcer as described by Mann In some areas the epithelium at the margin of the defect had lost its columnar character becoming cuboidal and had apparently grown out on this granulation tissue bed and up the sides of the mush room. In some regions of the ulcer there were many concentric organizing hæmorrhages. At one point in the ulter cavity there was free blood with an abrupt fault of the epithelium and tearing loose of granula tion tissue. Gram stains of sections of tissue from the ulcer made according to Rosenow's technique revealed many Gram positive diplococci in the deeper gr nulations of the ulcer Distant from the ulter no organisms were found except on the surface of the mucosa Rosenow and others have observed morphologically similar organisms in peptic ulcers in

Pasman R E The Surgery of Gastrocolic Fistula Following Gastro Enterostomy (Cirugia de la fistula gastro cólica consecutiva a gastro enteros tomia) Rev de cerurg Buenos Aires 1926 v 43

In a case in which a gastro jejunal ulcer (post operative jejunal ulcer) in the region of a gastro enterostomy orifice into the colon had evidently perforated an appendicostomy was done to permit cleansing of the excum and colon The portion of the colon from the c ecum to the point of stenosis at the gastrojejunal anastomosis in the center of the transverse colon was distended and filled with facal material of a pasty consistency, while the portion distal to the point of anastomosis was empty and greatly decreased in caliber

After twenty days of detary measures and daily lavage of the right or proximal section of the colon through the appendicular fistula with several liters of water containing a small amount of sodium sulphate the general condition showed marked im provement. The author states that he is at a loss to explain the associated decrease in the gastrogenic diarrhoza, unless it can be attributed to the improved adaptation of the colon resulting from a decrease in the size of its dilated lumen.

Operation revealed cicatricial narrowing of the poloris and dilatation of the entire small intestine and of the large intestine proximal to the middle of the transverse colon. Since peptic ulder is rare when the pylorus functions well, the author performed a gastroduodenostomy by Ballour's method, establishing a wide communication from the stomach into the duodenum through the pylorus. He then closed the gastro enterostomy openings separately. The opening into the colon was so large that resection of a portion of the colon seemed preferable to simple closure. The results five months after the operation were excellent.

Horsley J S Partial Gastrectomy Its Indica tions Prophylaxis and Technique J Am M Ass 1926, lxxxvi 664

Two lesions in which gastrectomy is indicated are malignancy and peptic ulcer with its complications and sequelæ. The importance of malignancy as an indication admits of no discussion. For peptic ulcer, gastrectomy is indicated when the lesion has recurred after a pyloroplasty or persists after a gastro enterostomy. Jejunal ulcer also is an indication for gastrectomy.

The author describes a modified Billroth I operation in which the stomach is united to the duodenum along the lesser curvature and the lower portion of the gastric-stump is infolded and further protected by the suturing over it of adjacent peritoneal fat To prevent obstruction an uncision from it of 1% in long is made in the anterior wall of the duodenum to in crease the caliber of the intestine at the point of unnow with the stomach. Even when as much as half of the stomach is resected the remainder can be joined to the stump of the duodenum satisfactorily by this procedure. The author has performed the operation ten times.

Portis S A and Portis B The Effects of Subtotal Gastrectomy on Secretion J Am M Ass 1926 lxxxx 836

The studies reported in this article were made on three dogs. A Pawlow pouch was first formed and after a period of analysis of the gastric secretion from both the stomach and the pouch, a subtotal gastrectomy was done and the gastric secretion then again analyzed. The operations are described and illustrated.

The following conclusions are drawn

- 1 The gastric secretion in dogs after a subtotal gastrectomy shows obsence of free acid, but a high combined acidity, whereas the secretion from a Paw low pouch, representing a similar part of the stomach, continues to secrete raid after the resection
- 2 Neutralization is the most important factor explaining the absence of free acid observed experimentally and clinically in the gastric secretion after subtotal gastrectom;
- 3 The artificial achylia produced may establish an entirely new and possibly harmful bacterial flora in the gastro intestinal tract with consequent gastro intestinal abnormality J FRANK DOUGHY M D

Bahcock, W. W. A Method of Partial Gastrectomy with Telescopic Anastomosis Surg Gynec & Obst. 19 6 vln 403

The author believes that end to end anastomosis is the most nearly physiological and anatomical method in partial gastrectomy. The objections to an end to end union between the stomach and duode numare.

- 1 The disproportion in the size of the openings in the stomach and duodenum which causes technical difficulties, especially when large resections are necessary.
- 2 The occurrence of excessive tension with the danger of secondary separation and leakage at the suture line
- 3 Secondary narrowing of the new opening with obstruction
- 4 Difficulties in mobilizing the duodenum with danger of harmorrhage leakage or damage to the pancreas or the pancreatic or biliary ducts

Babcock has employed a method of telescopic anastomosis in ten cases Instead of making an end to end union of the stomach and duodenum the duodenum is turned into the open end of the gastric stump after a high resection of the gastric mucous membrane and the outer serous surface of the duodenum is united to the inner surface of the muscularis of the stomach. The entire thickness of the cut end of the duodenum is united to the gastric mucosa

This anastomosis has the advantage of strength and mechanical adaptation. The technique is de scribed in detail. HARRY W. Fine, M.D.

Ross J W Hypertonic Saline Solution in Ady namic Ileus Canadian W Ass J, 1926 vvi, 241

The advisability of causing peristalsis in peritori tis depends upon the harm that may be done by absorption of the contents of the quescent bowel and whether peristalsis will spread the infection so that absorption from a larger area of peritonium will be fittal

McA car has found that ileus associated with a fall in the chlorides a rise in the carbon dioxide combining power, and a rise in the non-protein introgen of the blood. There is a definite indication for the use of salt solution in combating the full in the chlorides and in decreasing the harm produced by it.

Hughson and Scarff have shown that the intravenous administration of hypertonic salt solution delays the absorption of toric products by the gut Incidentally they noted that violent perstailsis began immediately, after the injection and continued for an

The author gives the protocols of his experimental work on dogs in which in a gut distended by means of an inflated finger cot peristals occurred after the

administration of hyperionic solution.

Three clinical cases of adynamic ileus are reported two due to appendicitis and one due to a perforated gastric ulcer. All of the patients passed flatus and freces after the intravenous administration of hypertonic saline solution and ultimitely recovered even.

though it seemed that they were moribund

J FRANK DOLGHTY M D

Meyer W The Duodenal Tube in the Post operative Treatment of Gastro Enterostomy Med J & Rec 1926 cxxxx 304

Meyer cites several cases of severe vomiting following gastro enterostomy in which the use of a duodenal tube relieved the vomiting almost immediately and probably saved the patient's life

SAMUEL KAHN M D

Lockhart Mummery J P Diverticulitis and Its Surgical Treatment Lancet 19 6 ccx 437

Diverticulitis is the condition in which secondary inflammatory changes have occurred in hernial pro trusions or diverticula in the walls of the colon

Of the author's forty one patients with diver trcultits twenty five were males. The sigmoid was involved in thirty six cases the transverse colon in three and the ascending colon and creum in one

case each

The ideal surgical treatment is resection of the
affected portion with end to end anastomosis and
temporary excostomy. This can be done however

in only a relatively small percentage of cases viz those in which the condition is localized. Colostomy though undesirable in many respects is very safe

and often is the only rational treatment. In nine cases the author adopted the less radical procedure of freeing the adhesions removing any prominent diverticula and then drawing the damaged bowel well up onto the ileum and wrapping

about it a fold of omentum

Early diagnosis and treatment may make surgical
interference unnecessary

EARL G GARSIDE M D

Coffey R C Colonic Polyposis with Engrafted Malignancy Ann Surg 1926 lyvon 364

There is probably no benign process with a higher incidence of malignancy than colonic polyposis

Indications for treatment of colonic polyposis are the depleting harmorrhage and diarrhera and the high incidence of malignant change. Non radical palliative treatment comprises execostomy appen dicostomy irrigations and radium therapy. Radical effective treatment—excision of the polyp bearing area—is limited by technical difficulties and the impossibility of determining the extent of the process

pre operatively

Every disease should be treated on the basis of its pathology It is quite generally conceded that col onic polyposis results from an inflammatory or ulcer ative condition of the mucous membrane of the colon A technique for removing the entire colon including the rectum is described in detail. This operation is done in three stages An ilcostomy is performed first and followed in ten days by resection of the entire colon and sigmoid From ten to fourteen days later a posterior resection of the rectum is done. At first the discharge from the ilcostomy is thin and contains a great deal of bile and intestinal secretion but after an interval of a few weeks or a month the distal loops take on the normal function of absorption of the large intestine and only one or two movements occur a day Thus a normally functioning abdominal mechanism is established

Brown has emphasized the merits of ileostomy as compared with colostomy. When the distal and proximal loops are sutured together there is no danger of herniation of the viscera around the ileostomy.

MERLE R HOON MD

Mayo C II and Hendricks W A Carcinoma of the Right Segment of the Colon 1nn Surg 1926 Exxxii 357

The clinical experience with cancer at the Mayo Clinic has been greatly aided by the observations of the pathologists with regard to the changes in the cells and the development of defensive tissue with its effect on cancer cells. All have been viewed with reference to the progress of the patient over a period of years with or without operation or other treat ment The work of MacCarty and Broders on the morphology and differentiation of malienant cells and the relation of these to classification diagnosis and prognosis has done much to establish rational treatment By their method the prognosis with re gard to the probable cure or length of life of a patient with any particular form of cancer can be most ac curately ascertained The surgical treatment of cancer is now much more thorough than it was in Morcover it has been learned that fixed growths and growths with extensive metastasis are best treated by radiation unnecessary surgical mor tality being thus reduced

The factors which should influence the surgeon in the surgeol procedure for cricinoma of the large bowel are low mortality increased comfort and the satis factory late results. The roentgen ray is a very definite help in the accurate diagnosis and location of umors of the alimentary tract. Blood stained mucus or stools are less commonly noticed in cases of tumor or stools are less commonly noticed in cases of tumor of the left bow for the commonly noticed in cases of tumor of the left bow for lower segment cases of tumor of the town or lower segment that it is not the common of the lower lower segment of the lower lo

is an appreciable increase in its size. In certain cases two malignant tumors of different types may be situated in widely separated areas in the large bowel

For carcinoma at any point from the ileocæcal coil to the hepatic flexure the technique described by the authors consists in removing the right segment of the colon with a few inches of the ilcum the excum and ascending colon originate embry ologi cally on the left side of the abdomen and pass up ward across to the right, and down to the iliac fossa, it is clear that the nerves and vessels are necessarily on the inner side of the colonic mesentery Therefore, in operations on the right segment of the colon the division of the peritoneum should be made on the white line of attachment of the outer mesen teric leaf to the parietal peritoneum as this greatly simplifies the operative work. If the bowel in the area of the tumor is movable a radical operation is advisable. The ilcocæcal coil and right segment of the colon are best removed and the ileum united to the transverse colon. At times resection is done in two stages the primary step being ileocolostomy The authors prefer an end to side union of the ileum with the transverse colon. They state that this procedure is ideal for the use of the Murphy button The technique of the resection and anastomosis are described The transverse end of the colon is in corporated in the lower angle of the wound with cat gut guides leading from the purse string of the seg mented large bowel If gas distention occurs within four days, the bowel may be punctured, the cateut being used as a guide to the closed end of the large la nod

The authors give statistics concerning '57 pattents with carcinoma of the right segment of the colon who have undergone operation. In a great number of these cases resection was inadvisable be cause of metastasis. Some of the patients are still living four, eight and nine years after the operation At best, the results of operation for carcinoma are not satisfactory, but death is inevitable if the carcinoma is not removed.

Filtration from the liver is so perfect that carcinoma cells are not passed into the portal vein and as a consequence the liver is involved later in cases of carcinoma of the right segment of the colon than in cases of carcinoma of the left and lower segments. In the presence of an ulcerated carcinoma the few lymph nodes along the large boxel may become enlarged but this enlargement may be due to inflammatory changes and therefore does not necessarily indicate inoperability.

Dzialoswynski A Gangrene of the Transverse Colon First Report of a Cured Case (Gangraen des Colon transversum erstmalige Beobachtung eines geheilten Falles) Zentralbi f Chir 1925 lii 2120 C

Gangrene of the transverse colon has been repeatedly observed following resection of the stomach after ligation of the middle colic artery or one of its main branches It may result also from separation of the adherent mesocolon in the immediate vicinity of the intestinal tube and resection of quite a large portion of the mesocolon without ligation of one of the larger blood vessels and without separation of the intestine from its mesentery. In all of the cases of gangrene the colon which have been reported in the literature the condition was fatal

The author reports a case of necrosis of the colon without ligation of the colic artery in which a cure resulted The patient was a 23 year old woman who. on September 30, 1922, was subjected to an anterior gastro enterostomy for ulcer of the duodenum On October 26, 1923, an extensive resection of the Kroenlein Mikulicz type was done for peptic ulcer of the jejunum. The patient was discharged from the hospital with a fistula and was operated upon for closure of the fistula on June 6, 1924 The fistula was caused by two tumors of the mesocolon one the size of a walnut and the other that of a hen's eggwithin which old ligatures were demonstrable. Both tumors were extirpated, care being taken to protect the middle colic artery On Tune 17, 1924 when the opening of an abscess became necessary, the entire transverse colon was found necrotic On September 8 1024 the leum was anastomosed to the descending colon On November 4 1924 the colonic stomata, which had become approximated by cicatricial contractions were closed. After a smooth recovery the patient was discharged on November 20, 1924, with good intestinal function

LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Vesell H and Sherwin C P Testing of Liver Function Detoxication by the I iver Arch Int Med 1926 **TVVII, 257

The liver has a most complex physiology. It plays an important role in the metabolism of proteins, carbohydrates and fats, it helps form bile pigments and bile salts and it performs detorucation work. Because of its multiple functions, its condition in any normal or pathological case cannot be determined by means of a single functional test. Experiments have shown that certain chemical and metabolic reactions may at times be limited to a single species.

The authors studied the acetylation of para aminobension and which occurs in the liver in the normal human body. The test is described in detail, but the quantitative chemical estimation of para aminobenzion and in the urine is too cumbersome for use as a clinical method even if it should prove satisfactory otherwise.

The test was applied to cases of cholecystitis, cirrhosis, carcinoma, and abscess of the liver, catar rhal jaundice, and carcinoma of the head of the pancreas. These cases presented symptoms of impairment of the function of the liver and all showed decreased actylation. Serious renal and cardiac disease did not decrease the percentage of acetylation in the liver.

The results in general indicate that severe liver damage gives low readings (zero in two carcinoma cases) and that milder liver involvement gives only slightly lowered readings CVEL J GLASPEL M D

Richter H M Cholecystography J 1m W 4ss

While appreciating the great value of cholecys tography in cases of advanced gall bladder disease in which the history is atypical or difficult to obtain the author warns against a source of error in the interpretation of the normal shadow and calls attention to a peculiar psychological process by which the method may cause confusion. The source of error lies in the fact that we are likely to interpret gall tract infection in terms of gall stones and ad vanced nathodorcal changes.

It has been estimated that the patient with gall stones comes to operation after an average of approximately twenty years of incubation and development of his infection. Therefore it gall bladder disease is interpreted in terms of the early patholog cal changes with early symptoms of evtragastine dyspepsia at which stage it is often possible to diag nose the condution from the in tory alone not only must cholecy stography fail but the clear cut roent genogram of the gall bladder which is typically normal at that stage directs attention away from this years as the source of the trouble

Gall bladder infection is recognizable clinically in a large percentage of cases before stones are present and long before the gross appearance of the organ is greatly changed or gall bladder function is materially or persistently deranged

J FRANK DOUGHTY M D

Levyn L and Aaron A H Cholccystography by the Oral Method Radiology 1926 v1 04

When the dye used for cholecystography is given by way of the alimentary tract the peculiarities of the portal circulation are such as to compel most of the absorbed products to pass through the liver prior to their discharge into the systemic blood stream Direct intravenous injection involves difficulties of technique with the possibility of local injury to the peripheral blood vessels at the site of operation Other disadvantages of the latter method are the danger of bacterral contamination and the fact that the vehicle as well as the drug is immediately foreign to the blood. The intravenous injection of a large variety of substances was found to cause definite and important changes in the arterial blood accompanied as a rule by disturbances in physiological function In experimental animals disturbances in these proc esses were indicated by changes in the blood pres sure and the pulse and respiratory rates ranging from moderate to profound and resulting frequently in collapse and sometimes in death

Levyn and Airon therefore carried out experiments in the hope of securing some type of protected capsule which would allow better absorption of the dye interference with which is due largely to a chemical reaction. Tetra iodophenolphihalein so dium salt is very readily soluble in water but in the presence of mineral acid such as hydrochloric acid the free acid of the tetra iodo is formed which appears as a white sediment and is highly insoluble in water.

If the sodium salt is given directly into the stom ach the acid gastric juice immediately converts the salt to the insoluble free acid. If this free acid passes on into the intestines the alkalinity of the intestinal fluid is not sufficient to convert the free acid to the soluble salt again and the desired result cannot be obtained.

The oral method of administering the dye has the distinct advantage of simplicity and none of the distinct advantage of simplicity and none of the dangers of the intravenous method. In doubtful cases examinations may be easily repeated. Daily mostic interferences may be drawn as from the visual ization produced by the intravenous method. Until large numbers of operative and pathological reports have established the significance of marked warations in the emptying time and a mottled appearance of the gall bladder the diagnosis of gall bladder disease should not be based on these findings alone. A correct interpretation of visualization and non visualization will be attained only as the result of collaboration between the pathologist roentgenologist and surgeon.

The chief purpose of this article is to report what to the author has proved the best and simplest method of administering the dye orally eliminating the uncertainties of the use of chemically hardened capsules affording the greatest degree of protection against the acid of the gastine juice and making available for absorption the largest amount of the

dye
All patients subjected to cholecy stography should have their chest screened because restricted dia phragmatic excursion causes imminshed pressure on the liver during inspiration thereby mechanically delaying the emptying time of the gall bladder. At times it is possible to demonstrate adhesions b twen the gall bladder and the anterior abdominal wall. If the position of the gall bladder is the same after deep inspiration as after expiration we would assume that it is fixed probably to the abdominal wall because normally the gall bladder will be seen considerably lower after deep inspiration than following expiration.

Morse IM KANN MD

Graham E A Cole W II Copher G H and Moore S Simultaneous Chelecystography and Tests of Hepatic and Renal Functions by a Single New Substance Sodium Phenol tetra Iodophthalein Preliminary Report J Am M Ass 1926 lvrvi 467

The sodium salt of phenoltetra iodophthalein an isomer of tetra iodophenolphthalein not only ren ders the gall bladder visible in the roentgenogram but stams the blood serum sufficiently for its detection after alkalmization probably by a test similar to the Rosenthal test and is everteed by the kindreys in

sufficient quantities to permit its recognition colors metrically in the urine after alkalinization

Therefore if the substance can be obtained in sufficient quantities it may be possible so to standard ize the technique that cholecy stograph; and tests of hepatic and renal function may be made simul taneously. Marcus H Hobarr M D

Habbe E and Smith L A Unusual Bile Duct Visualization by Roentgenograms of Barium Meal Report of a Case J Am M Ass 19 6 lxxv1 4,6

In the case reported by the authors the intra hepatic ducts were filled by the barium meal, evi dently through a spontaneous cholecystoduodenos tomy, and were clearly visible in the roentgenogram

The authors believe that the bile ducts may be filled in a similar manner by the duodenal contents after meals, particularly when the patient lies down after eating The retention of the barium in the ducts indicates that food material with its accompanying bacterial content must be present in the bile ducts at all times

Although in the case reported the marked ab normality has probably been present for five years it has caused no functional change so far as can be determined by the usual liver function tests

Such cases are rare, but a few have been reported in the literature • MARCUS H HOBART, M D

Cushing E II and Stout A P Gaucher's Disease with the Report of a Case Showing Bone Disintegration and Joint Involvement Arch Surg 19 6 on 539

The purpose of this article is to present the clinical features of Gaucher's disease and to attempt to evaluate the results of splenectomy as a therapeutic measure.

A review of the literature reveals only forty four authentic cases of the condition. Personal information of unreported cases allows the authors to summarize five others. Of these two cases which were treated at the Presbyterian Hospital, New York, are reported in detail.

Gaucher's splenomegaly occurs most frequently in women and children. It is characterized by enlarge ment of the spleen bronzing of the skin anaemia, and a marked hæmorrhagic tendency. The pathological picture is characterized by the presence in the spleen liver, lymph nodes and bone marrow of large round or polygonal cells with one or more nuclei.

The first case reported by the authors was that of a woman aged 29 years whose condition was diag nosed as Banti s disease and treated by splenectom. After the operation the patient gained slightly in weight There was no change in the number of red blood cells, but the white cells increased from 5 000 to 15 000. The postoperative record of the case covers sixty eight months

In the second case that of a woman aged 33 years the condition was accompanied by bone disintegra tion and joint involvement. Splenectomy was fol lowed by a gain in weight of 17 1/2 lb and an increase in the red cells from 1,300 000 to 3,010,000. Later the head and neck of the femur and the acetabulum obne was greatest near the joint. The neck of the femur was quite soft and the bone seemed sandy in consistency. The authors believe that the gradual atrophy of the head of the femur erosion of the articular cartilages and disintegration of the joint were due to the multiplication of Gaucher's cells within the bone marrow.

Splenectomy is the only treatment attended with any measure of success in Gaucher's disease but there

is no indication that it effects a cure

EARL G GARSIDE M D

MISCELLANEOUS

Unger A S and Speiser, M D Congenital Dia phragmatic Hernia with a Report of Seven Cases with Autopsies Am J Roenigenol 1926 v 135

Diaphragmatic herma are true or false depending upon the presence or absence of a sac. Those of the latter type constitute 87 per cent of congenital herma. Diaphragmatic herma occur most fre quently through the foramen of Morgagni, the foramen of Bochdalek, and the csophageal hiatus. They occur on the left side eight times more fre quently than on the right side. The viscus found most frequently in such herma is the stomach, but every abdominal organ except the genital organs, the bladder and the rectum has been discovered at least once in the thoraci cavity.

The clinical picture of diaphragmatic herma is very variable. In some cases symptoms begin soon after birth while in others there may be no symptoms and the condition may be discovered accidentally in adult life. Dyspace is a con mon complaint the degree of which depends upon compression of the lungs. Nausea or vomiting and abdominal pain or colic may occur. Preceding death in the cases of newborn infants, the brathing is very shallow, the cry is very weak, and cyanosis is present. In older persons the respiration is short and quick, and the voice may have a peculiar tone. In about one third of the cases reported hickough occurred.

The authors report seven cases in six of which an autopsy was performed. In the seventh case the condition was discovered accidentally in a roentgen examination for injury of the left humerus. Two of the subjects were newborn infants, two were children is year old, and two were adult males past the third decade of life.

These cases exemplify the authors' classification In cases of the first class death occurs at birth or shortly afterward. In those of the second class the child lives for a few months or years but has constantly recurring dyspince. In the third class are adults. Adults with the condition are generally healthy, but following a severe strain some of them go into shock and die suddenly. Others have no

symptoms the condition being discovered during an abdominal operation or \ ray examination

Exec G Garsme M D

Neuhof H Retroperitoneal Sarcoma (Adrenal Tumor?) with Hemorrhage Three Years After Operation Ann Surg 19 6 ixxun 200

Neuhol reports the case of a noman 30 years old with a history of appendectomy two years previously for recurring abdominal cramps of several months duration. After the operation she felt well for a few months but soon began to have epigastric fullness after meals At the time of her admission to the hospital for the second time she had lost 15 lbs in weight Twenty four hours before her admission she was seized with a violent cramp like pain in the right lower quadrant of the abdomen which ancreased in sevents and was associated with comiting. The howels moved with an enema. On examination a cystic mass was palpated in the mesial and right upper portion of the abdomen This was about 20 cm in diameter smooth fixed tender and fluctuant The overlying musculature was rigid but general rig idity was absent. The leucocyte count was 21 200

An upper right rectus incision over the bulge re vealed a large bluish mass apparently located in the

transverse mesocolon. When the overlung transverse mesocolon was unused a plane of cleavage was found through which the mass rould be separated by blunt dissection from the pancreas the tight budney and the third portion of the disodenium. As it was impossible to free the encysted blood clot from the right tudney completely a portion of the upper pole was removed with the retroperational mass. Gauze packing surrounded by a rubber dam was placed in the retroperational space the remainder of the posterior peritoneum was subtured, and the abdomen was closed around the drain.

The removed mass which was spherical consisted of a thin confining membrane enclosing a blood clot Tumor masses were scattered throughout the clot but the attached portion of judney appeared normal The microscopic diagnosis was anniosarcoma.

Deep Yang, therapy was given for several months after the operation. The patient has gained 20 fan and has remained in perfect health up to the present time two years after the operation. Although there was no microscopic evidence that the tumor arose from the adrenal the author is of the opinion that it was of adrenal origin because the clinical potture was very similar to that of an adrenal tumor with harmor thange.

GYNECOLOGY

UTERUS

Clark, J G and Ferguson, L K A Cystogram Study of Cystocele and Prolapsus Surg Clin N Am, 1926 v1, 79

Cystography is probably the most impressive and convincing method of showing the deformity of the bladder that occurrs in cystocele and descensus and the degree of anatomical reposition of the bladder obtained by various operations in these cases It furnishes a permanent and exact record which can be referred to and used as a standard in subsequent examinations and therefore will show which of the various operative procedures gives the most lasting results

A plate is first made with the patient in the prone position. The catheter is then removed and a second plate is made with the vertical fluoroscope. The patient is then requested to empty her bladder completely and a second examination is made with the vertical fluoroscope for residual urine.

If any residual urine is found, a third vertical plate

ıs made

After the operation the procedure is repeated after an interval of from eighteen to twenty days, and when possible, a year or more after the patients discharge from the hospital The procedure is entirely harmless

The authors report eight cases with pre operative and postoperative cystograms showing the position and shape of the bladder ROLAND S CROM M D

Gaenssle, H. The Results of Operation for Prolapse (Ueber Ergebnisse der Prolapsoperation) Monatsschr f Geburtsh u Gynaek, 1925 lvx 295

Suture of the pelvic floor is usually preceded by plastic work anteriorly and separate suture of the vesicovaginal septum. In cases of insufficiency of the sphincter of the bladder with urinary, incontinuate the sphincter is brought together with interrupted sutures. Because of the good results which have been obtained in this manner it has never been necessary to employ the Goebel Stoeckel plastic operation on the pyramidalis. After a properly per formed operation for prolapse, the hypertrophied portio will become normal in size without any fur their treatment.

In Selheim's plastic operation on the pelvic floor the levators are sutured separately and over them the constrictor cumn is seved in two layers and the skin is sutured separately. If the operation is not performed in the immediate premenstrual or post menstrual period there is little bleeding. The tech inque is not particularly difficult. The operation is performed preferably under lumbar ansesthesia Follow up studies indicate that the results are better

in untreated cases of anteflexion and retroflexion than in those in which postural methods have been used. Consideration of the position of the uterus is not necessary.

B) Sellheim's method, total prolapse may be operated upon as well as slight discensus. Ten per cent of the completely cured women have had re peated pregnancies some of them have been delivered as many as four times. Careful management of the labor is necessary. If the head remains on the pelvic floor, forceps should be applied and a longitudinal incision should be made through the old scar and sutured immediately after labor. The author be heves that a cure may be obtained in 90 per cent of the cases.

Violet and Michon Adenomyomata of the Uterus and Ovaries (Les adenomyomes de l'uterus et des ovaires) Gynée et obst 19 5 xii 403

Adenomyomata of the uterine cornua and the round ligaments are discussed. A case is reported in which an adenomyoma appeared in the abdominal wall following ventral fixation by the round liga Adenomyomata of the subserous variety form the only true cysts of uterine origin Intersti tial adenomyomata are common They occur dif fusely beneath the mucosa, a condition called by the author 'adenomy ometritis" and as localized tumors apparently due to extension from the glands of the normal subjacent mucosa They fre quently penetrate to the peritoneal surface, causing fibrin deposits and the adhesion of neighboring structures (most frequently the rectum) authors have found them associated with large uterine fibroids and in the form of true ectopic grow ths

There are two general clinical types the hemor hagic, associated with profuse metrorhagia and the dysmenorthicic with severe menstrual disturbances not releved by ordinary measures. Adenomyomata of the pouch of Douglas are often included in the latter group. The authors have seen included in the latter group. The authors have seen loss of weight etc.) Rectal examination alone gives findings that can be rehed upon in the differential diagnosis. A case is cited in which a supravaginal hysterectomy was done but of course failed to give rehef

The authors report also a case of endometrial blood cyst of the ovaries and review the various theories as to the pathogenesis of this condition. They are inclined to accept Sampson's theory that it is the result of tubal regurgitation with the transplantation of endometrial fragments.

GOODRICH S SCHAUFFLER M D

Von Kuettner O Sarcomatous Degeneration of Uterine Myomata (Zur Frage der Umwandlung von Uterusmyomen in Sarkom) Monatsschr f Geburtsh u Gynach 1925 (vo. 177

The case reported by the author was that of a 54 year old woman who was admitted to the hospital with the diagnosis of pentonitis or ileus. Eleven years perviously an examination had revealed what was believed to be a cvist the size of an apple in the left orary. For several weeks the patient had noticed a rapid increase in the size of this tumor and four weeks previously had had an attack of acute pain in the left hypogastrium. The day before her admission to the hospital the pain had recurred and was associated with vomiting and difficulty in the pass size of flatis.

Operation revealed instead of the expected ovarian tumor with a twisted pedicle a cystic tumor attached by a narrow pedicle to the atrophied uterus and containing about 2 liters of necrotic material

mixed with blood; fluid.

Although the operation was difficult the patient left the hospital after-sixteen days. Two months later a recurrence developed. The microscopic diagnosis was sarcomatous degeneration of a myoma.

In the discussion of this report Henke who examined the tumor in on Kuetther's case microscopically-called attention to the relative infrequency of sactomatous depeneration of myon. Biemeristated that if the frequency of such degeneration were asgreat as is assumed by Bumm and Warnekros a considerably greater number of recurrences would develop after supravaginal amputation. Asch Koerner Fraenkel Dienst and Mattias were of the same opinion. Vattian based his conclusion on 1 200 autopaise made in cases of malignant tumors in which sarcoma was found in only twenty six (2 per cent).

Frankel called attention to the fact that some timors considered momanta are sarcomata from the beginning. He reported a case in which an extirpated timor was believed to be a myoma until a recurrence proved it to be a sarcoma. Even the infiltration of a timor does not always prove its sarcomatous nature. Koerner reported a case in which a sarcoma with

numerous giant cells penetrated a my oma Dienst described a submucous my oma the size of a

Dienst described a submucous my oma the size of a man s head in which the peripheral one consisted of compact tissue while the central part contained cysts varying in size from that of a cherry to that of a goose egg and showed occasional areas of metaplasia of the tumor cells into cartilarmous tissue

FLESCH (G)

Walther H W E and Peacock C L Gonococcal Endocervicitis South M J 10 6 xix 202

In gonecoccal endocervactis amputation of the certain and cauterization with the actual or electric cautery have been done but this treatment produces scar tissue which senously interferes with subsequent labors. The authors have found that the gonecocci may be effectively destroyed without in

jury of the tissues by diathermy. They describe their technique in detail and report the results in twelve acute and twenty six chronic cases. The number of treatments was usually from two to four teen.

The time of an average treatment was ten minutes. The average milliamperage was 500. The treatments were given at intervals of from two to four days until the smears were negative.

I LDWARD BISHKOW M D

Becker C Carcinomatous Degeneration of Hetero topic Epithelial Inclusions in the Uterus (Car cnomatoese Degeneration heterotoper Epithelein schluesse am Uterus) Zentralbi f Gynack 1922, zlix 2333

In the case of a 54 year-old nulliparous woman who had suffered from backache and intestinal ca tarrh six months previously the uterus was removed by supravaginal amputation because of fixed ret roversion Before the amputation could be per formed the liberation of numerous adhesions was necessary The anatomical examination revealed in the serosa of the pouch of Douglas on the posterior uterine wall several tumor mas es which had the structure of glandular carcinomata and were ap parently peritoneal metastases. The endometrium was entirely normal A rectal carcinoma as the source of the smaller tumors was definitely excluded This case is similar to cases described in the litera ture as fibro adenomatous scrositis or scro-epithelial adenomyositis

Beck r believes it possible that the previous dy menorrhœic disturbances played a part in the etiol ogy of the tumors (passive congestion during the always painful menstruation) that a curettage done five years previously may have crused the di semina tion and implantation of endometrial epithelia in the cul-de sac of Douglas and that atrophy of the tissues due to the menopause which immediately followed the currettage favored the occurrence of malignant degeneration in the implanted cells Soon after the removal of the uterus a nephrectomy was necessary because of injury to the ureter leading to pyonephrosis In the interval between the opera tions an inoperable carcinoma the size of an apple developed in the cervix FLESCH (G)

Clark J G and Keene F E The Treatment of Carcinoma of the Cervix by Irradiation Surg Clin V 1m 1926 VI 213

In the treatment of carcinoma of the cerus the authors have always limited themselves to the use of 100 mgm of radium element. In only, a very few cases have they combined \ \text{ra} therapy, with the radium treatment. The radium is divided into one capsule of 50 mgm and four needles each containing 125 mgm. Almost without exception the dossign has been 2 400 mgm hrs. The radium has been buried only in the carcinomatous crater or in addition the needles have been inserted into the tissues around the involved area.

In the past few years the application has been made under nitrous oxide-oxygen anasthesia. The patient is told to report within six weeks and the decision as to a second application is made from the appearance of the disease area at that time. Frequently the treatment is not repeated because the carcinomatous area is found to have disappeared apparently completely.

"The chief benefit from irradiation comes from the first dose. A very careful selection of cases is neces sary since in certain types such as those with wide spread involvement of the base of the bladder, the rectum, or the uterosacral ligaments, radium in sufficient quantities to affect the carcinomatous process favorably will cause extensive necrosis, a rectal or vesseal fistula, and very severe pain

In about 65 per cent of the more advanced cases of carcinoma of the cervix the treatment produces a local healing of the process with temporary or permanent cessation of the bleeding and discharge In about 15 per cent the application of radium seems to stimulate the malignant process to greater ac tivity.

Statistics show that in early cases the results of radium treatment are equal if not superior, to those obtain d by radical op ration In Clark's clinic, the radical operation for carcinoma of the cervix has not been performed during the past three years In 214 cases treated during the period from 1010 to 1923 the disease was confined to the cervix in only thirteen of these thirteen cases, seven were treated with radium alone and six were treated by high cautery amputation of the cervix and the application of radium In the first group a five year cure was obtained in two (28 5 per cent) while in the second group a five year cure was obtained in five (83 per cent) The authors believe that the combination of radium and the cautery is followed by much better results than the use of one or the other alone

In many clinics the combined use of radium and deep X ray therapy has been undertaken but the value of this treatment is still to be determined ROLAND S CRON, M D

Petit and Marion Accidental Section of the Ureter During Hysterectomy for a Large Fibroid in the Right Broad Lygament End to End Suture Over a Ureteral Sound Abdominal Drainage Result After Twenty Months (Section acciden telle de Iuretère au cours du me hystérectomic pour gros fibrome inclus dans le ligament large droit suture bout à bout sur une sonde urétérale drainage abdominal résultat vingt mois après) Bull et mém Soc nat de chir 1925 li 970

During a hysterectomy performed by Petit the right ureter was accidentally cut about 8 cm above its insertion in the bidder. The ends were approximated over a ureteral sound. Four fine catgut su tures, including all of the coats of the ureter were introduced for coaptation, and between these were introduced four more including only the outer coat of the ureter and four to approximate the tissues.

surrounding the two ends. The rest of the operation was so conducted that abdominal drainage was obtained from the area of the sutures.

On the seventh day after the operation the sound was removed by way of the bladder and on the fitteenth day the drain was removed. A small urmary fistula closed about the thirtieth day after the first ureteral catheterization. Although there was evidence of stricture in the region of the injury progressively larger catheters were used with success at repeated catheterizations over a period of twenty months. Endney function remained unimpaired.

Manon points out that it is unusual for the ureter to remain permeable and the kidney function to remain unimpaired following such an injury. He cites a case in which damage due to a similar stricture was noted only after nineteen years Manon favors Petit's procedure especially the repeated cathetenization of the ureter.

GOODRICH S SCHAUPPLER M D

ADNEXAL AND PERIUTERINE CONDITIONS

Shaw W The Fate of the Graafian Follicle in the Human Ovary J Obst & Gynac Brit Emp,

Only a small percentage of the granfian follicles found in the ovary at birth undergo ovulation. The majority become atretic. The large lutein cells of the corpus luteim are derived from the granulosa laver of the follicles. The paralutein cells develop from the theca internal layer. It requires about eight months for a corpus luteium to become converted into a corpus albicans. Attetic structures derived from the granfian follicles are the corpus articities, the corpus candicans, the corpus fibrosum and the corpus restrictions.

Soimaru Intraperitoneal Hemorrhage from the Rupture of a Lutein Cyst of the Overy (Rupture intraperitoneale de kyste luteinique de lovaire) Bull Soc d obst et de gynée de Par 1925, xiv 653

Severe intraperitoneal hamorrhages may result from other conditions than ectopic pregnancy. In cases reported in the literature the causes included the rupture of a graafian follicle the rupture of expulsion of a corpus lucteum the rupture of an ovary, a primary cyst, a cyst with a twisted pedicle, or paracystic varices, a malignant tumor, and chronic ophoritis

Somaru reports a case of rupture of a tubo ovarian cyst

ALBERT F DE GROAT, M D

Hitzanides E Rupture of a Corpus Luteum Cyst Simulating Rupture of an Ectopic Pregnancy (Rupture d un kyste du corps jaune de l'ovaire simulant une grossesse extra utetine rompue) Bull Soc d'obst et de gante de Par 1925 xiv, 656

Contrary to the studies of Forssner and others which tend to show that severe ovarian hæmor rhage occurs only as the result of ectopic pregnancy,

the author believes that such a hamorrhage is often due to the rupture of a graafian follicle or a lutein cyst simulating an ectopic pregnancy. To prove his contention he cites an illustrative case

A widow 45 years of age who was sterile and had never had an abortion was serized with pain in the lower part of the abdomen. This pain was very severe and persisted for ten days. For the last eighteen months before the patient consulted the author seh had sufficed from severe metrorrhagia which occurred twice monthly and was associated with hot lashes and heredate.

On examination the patient was found pale and thin Abdominal tenderness was present but there was no rigidity. The clinical signs of pregnancy were absent. In the cul de sac was a mass suggesting a

pelvic hæmatocele

At operation the uterus and tubes were removed with a large clot which filled the pouch of Douglas. The source of the harmorrhage was found to be a

tear I cm long in a cyst of the right ovary Micro scopic examination showed the cyst to be lined by lutein cells No fetal elem nts could be found

Albert F De Groat M D

Pfeiffer D B and Smyth C M Jr An Ovarian Cyst Twisted on Its Pedicle with a Carcinoma of the Sigmoid Discovered Incidentally Surg Clin N Am 1026 v1 207

In a case of ovarian cyst twisted on its pedicle the authors found after removal of the cyst a typical anabian ing? carcinoma of the sigmoid. The growth was readily mobilized with its regional mes entery and brought out through the abdominal wall in the manner described by Mikhlicz. At the same time the ileus was reheved. No attempt was made to creat a sphincter. In this procedure there is no danger of sepais from the primary operation as the bowel is not opened until it is withdrawn from the abdomen.

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Falls, F II The Use of the Vaginal Stethoscope in the Early Diagnosis of Pregnancy Am J Obst & Gynec, 1926, v1, 309

The vaginal stethoscope advances the time of hering and counting the fetal heart times about four weeks therefore making this sign pricede quickening. It is of aid in the diagnosis of placenta prævia death of the fetus in early pregnancy, mole pregnancy and pregnancy complicating uterine fibroids. Fetal movements as well as fetal heart tones can be heard vaginally in the early months of pregnancy. The use of the vaginal stethoscope is of particular vulue in the cases of women with a very thick abdominal wall which renders ausculation difficult.

E L CORNELL M D

Bridgman E W, and Norwood, V Pulmonary Tuberculosis and Pregnancy Bull Johns Hop kins Hosp Balt 19 6 xxxviii, 82

In a series of 14,000 cases of pregnancy in an equal number of white and negro women many of whom were multiparte the obstetrical cards showed that 134 of the patients were grouped as having pulmo nary tuberculosis in one or more of its various forms. This revealed no increase over the expected incidence of pulmonary tuberculosis and the routine physical examination disclosed no alarming incidence of tuberculosis during the period of gestation. There was no evidence that pregnancy in any way promoted the occurrence of the infection. In fifty cases the presence of tuberculosis could not be confirmed.

In seventen cases the history and signs pointed conclusively to pulmonary tuberculosis in an inactive stage at the time of delivery. These women had the household duties and the care of families to a greater or less evtent and belonged to the class which, in general, is unfavorable for the care of tuberculosis. In spite of this fact, seven of the ten patients whose after histories are known were in excellent condition from six months to five years after delivery. It is probable that the wear and tear of their lives would have produced such flare ups whether they had borne infants or not. The authors believe that pregnancy was often concidental.

In thirty one cases of active tuberculosis during pregnancy and at the time of delivery there were four spontaneous premature births, two deaths and two spontaneous abortions in the sixth and fourth months

Twenty three babies were discharged at the end of two weeks in fair condition. Their average birth weight was 2 808 gm, which is definitely below the average for the service and 400 gm below the

average weight of the babies whose mothers had ouisescent tuberculous lesions

In the presence of active tuberculosis pregnancy is followed by the death of the mother within one year in fully one hilf of the cases. The prognosis is best in cases of pregnancy with a fibroid type of tuberculosis which are given suitable treatment. In cases of cascous lesions with no antituberculosis therapy, the condition is apt to be fatal. Even in the cases of patients in whom the condition does not terminate fatally pregnancy is deleterious to the pulmonary condition.

There were twelve cases of active tuberculosis in which a therapeutic abortion was done. Of these twelve patients three could be followed for only two weeks after the operation and therefore vie not considered in this report. All of the abortions except one were induced between the second and third months of pregnancy. In the one exception it was induced in the sixth month. Of the remaining nine patients, two (-2 per cent) were living and in better health two were living but not in better health and five patients (57 per cent) were dead at the end of 1 year.

A comparison of the results in this group with those in a similar group in which abortion was not induced suggests that the operation renders the program of the foresteld.

prognosis less favorable
Abortion was induced also in the cases of seven
patients with inactive tuberculosis. All of these
patients were doing well at the end of a year, as

patients with inactive tuberculosis. All of these patients were doing well at the end of a year, as were also those with inactive tuberculosis who were allowed to go to term. Nineteen patients were suffering from some other

Minieteen patients were someting noin some other disease besides tuberculosis. In this group the prog nosis was poor. When the tuberculosis was mactive, the result depended upon the seventy of the concomitant disease. Besides the type of the lesson it was the amount of work and rest in daily life that seemed to control the prognosis.

In the case of a pregnant woman in whom active tuberculosis is found, the tuberculosis should be treated to the utmost and the pregnancy disregarded Rest preferably in a sanatorium, is the treatment for tuberculosis. Attificial termination of pregnancy is not indicated

The infantile mortality in the first year is over 50 per cent Even if the infants live longer, many of them develop tuberculosis. The intimate contact between mother and young baby nearly als avs results in infection of the child. If there is any sign of activity of the tuberculosis in the mother, the child should be taken away and brought up elsewhere until the mother's lesion has become quiescent. The strain of nursing the baby is obviously harmful to the mother. Relating 5 Ckey, M.D.

Heynemann T. The Differential Diagnosis Between the kidney of Prejnancy and Chronic Nephritis in Pregrancy and Between Eclamp sia and True Urzemia (De Differentialaganose zwischen Schwangerschaftsmere und chronischer Vephritis in der Schwangerschaft und zwischen Eklampse und echter Urzemie) Zenirolli f Gynat 1033 dir 2290

The differential diagnosis between eclampsia and the true urzemia of pregnancy can be made with considerable certainty. Most important is the repeated e timation of the blood urea and indican. An amoniacia dort to the breath and the absence of an increase in the specific gravity of the urine when the quantity of urine is greatly increased justify the diagnosis of true urzemia. Urzemia is suggested also when there is a history of nephrity.

Pregnancy complicating chrome nephritis often gives the picture of a renal affection of pregnancy. There is no sure differential sign. The diagnosis of the Ludney of pregnancy is made too often as this condition also may be associated with a high increase in the blood pressure the appearance of erythrocytes in the urine and even with albuminatic retinitis. If these is in the proposition is the second half of pregnancy a diagnosis of the nephritis of pregnancy is upstified whereas if they appear in the first months of pregnancy the condition must be considered a chrome nephritis. Signs such as hypertrophy of the left ventricle and albuminatic retinitis are to be similarly interpreted. Hitsis (i).

Rockwood R Mussey R D and Keith N M A Clinical Study of Nephritis in Cases of Pregnancy Surg Gynec & Obst 1926 xhi 342

Many of the toxemias of pregnancy are associated with nephritis and can be classified as are other types of nephritis not necessarily occurring in pregnancy. The classification of Volhard and Fahr is used.

The authors review the course of fifty seven cases during pregnancy and the fate of the mothers and infants over a period of three years. They state that both nephritis and toxemia of pregnancy seem to be general diseases affecting the cardiorenal vascular system as a whole

When the toxemia of pregnancy is classified by the method which Volhard uses for nephritis a marked difference in the end results is seen. This difference allows the physician to make a more accurate prognosis both as to the mortality among the mothers and as to the fate of the child in subsequent pregnances.

Brannan D and Cohen M Necrosis of the Corpus Luteum of Pregnancy Surg Gynec & Obst 1020 xlm 228

The authors report two cases of necrosis of the corpus lateum of pregnancy. The first was that of a printipara who suffered from permicious vomiting in the third month of pregnancy. The illness was acute and progressive, terminating in death forty four days after its onset. The hyperglycamia and

glycosuma were doubtless the result of the liberal therapeutic use of glucose solution. The acidosis as revealed by the urinalysis, was obviously due to starvation. Albuminuma was not marked

Besides pulmonary ordema, the postmortem exammation revealed bittle of significance, so far as the gross findings were concerned. Microscopically, the most important lesion was extensive congulative necrosis of the corpus luteum. Certain of the lutein cells near the blood vessils were not greatly altered and seemed to be somewhat protected by their potion. The liver showed fatty changes but not the usual central necross. The kindneys presented very definite parenchy matous degeneration but nothing especially characteristic.

In the second case also permitious counting of curred inearly pregnancy. The patient was a multipart in third month of gestation. When she entered the hospital after two weeks of almost constant vomiting she had lost weight and showed evidence of debud ration.

Jaundice and a high non protein introgra content in the blood were unusual leatures worthy of note The rapid pulse and the laver were apparently term and phenomena. The high red and white blood cell counts were due no doubt to concentration of the blood from the loss of fluids. The leucocy toes was possibly associated in part at least with the acute adometries. The slight his prefix came and sty cosuma as in the first case are to be attributed to the therapeute use of devitors.

With the exception of cedema of the lungs and an adenomatous goiter the autopsy findings were not noteworth.

The pythological findings in the liver while not extensive were definite. There was a moderate degree of fatty change in the central cells and in occasional lobules one or more necrotic cells were observed. The liver was also ordematous. The cause of the jaundice remains obscure as the liver damage was not sufficient to evolan it.

By far the most marked lesson found was the massive necrosis of the coppus luteum. Rather extensive liquefaction of the dead lutein cells in this case perhaps indicated necrosis of longer duration than in the first case. As in the first case the necrosis represented an uncommon local degeneration. No other owarian tissue was affected in either case but occasional capillaries of each corpus luteum were evidently injured slightly.

evidently injured signify. These two very similar cases of pernicious vomiting of pregnancy both terminating in death revealed for the most part a similar diseased condition especially of the corpus luteum. Both presented the rather characteristic fatty, changes in the law condition of the corpus luteur. Both presented the law conditions were there increased the case were the mercute central law really and these were not numerous. Central law really and these were not numerous. Central encoses of the lawer though often observed is not a constant finding in this disease. The frequently journal necross of the renal tubular epithelium was absent in both case. The leasons of the kidneys were not characteristic.

being unlike the degenerative changes occurring in other acute infectious and toxic diseases

CARL H DAVIS, M D

Stander H J, and Peckham, C H Basal Metab olism in the Toxemias of Pregnancy Bull Johns Hopkins Hosp Balt 1926 xxxviii 227

The authors have noticed in the latter half of pregnancy a definite elevation in the basal metabolic rate and a return to normal at about the tenth day of the puerpernum. The return is gradual and steady

In pre eclamptic toxemia the basal metabolic rate is slightly higher than in normal pregnancy. It returns to the normal level at about the fifteenth day

of the puerperium

Nephritic toxemia is associated with a basal met abolic rate of about + 33 before delivery. This figure is slightly higher than that for the pre-eclamptic group. In nephritic toxemia the basal rate tends to remain elevated for a longer time during the puerperium than it does in period before eclampsia

The basal metabolic curve for the eclamptic group is almost identical with the nephritic curve

Basal metabolism determinations are of little aid in differentiating between the various types of tox

æmias of late pregnancy

In normal pregnancy as well as in the different roxemias of pregnancy, there is some factor or factors resulting in an increase in the basal metabolic rate as term is approached a gradual return to nor mal ensuing during the pureprenium It is probable that such a factor or factors may be related to the growth of the fetus as well as to a slight increase in the activity of the thyroid gland

ROLAND S CRON M D

Allen W M Interagglutination of Maternal and Fetal Blood in the Late Toxemias of Pregnancy Bull Johns Hopkins Hosp, Balt 1926 xxxviii 217

The author states that while the interagglutina toon theory may explain the occurrence of eclampsia in pregnancy, a relationship of interagglutination to the frequency of eclampsia in primpare and in hydram axis is difficult to visualize and the theory cannot possibly explain the occurrence of eclampsia with hydatid mole since in the majority of instances of the latter abnormality in fetal blood is present. Aften tion is called also to the fact that the fetal rend unit is generally weak in agglutinians. Although the sera of 21 per cent of a series of 479 women agglutined the infant's corpuscles the fetal serum never agglutinated the maternal cells

The author studied the iso agglutination characteristics of the blood of 375 normal and 104 toxemic women and their newly born infants

There was no evidence that incompatibility is more frequent in toxemic than in normal gestation Incompatibility between the blood of the mother and the blood of the infant was present in 20 8 per cent of 375 normal pregnancies and 21 1 per cent of 104 toxemic pregnancies

There was no evidence of specific immunization of the mother against fetal corpuscles

The author believes that the discrepancy between the findings of this and previous work is probably accounted for by the size of the series studied. With a small number of cases the percentage of error and likelihood of coincidence are very great

The study reported yielded no evidence that the late toxemias of pregnancy have their origin in iso agglutination phenomena ROLAND S CRON, M D

Irwin J C The Role of Cæsarean Section in the Treatment of Eclampsia California & West Med 19 6 xxiv 208

The author presents data which indicate that, as compared with more conservative procedures, casa rean section is an unfavorable procedure in the treatment of eclampsia, the mortality rate following the operation being relatively high

Cæsarean section is indicated only in well ad vanced pregnancy with no cervical dilatation in cases in which other attempts at delivery have failed,

and in cases of contracted pelvis

The abdominal hysterotomy should be chosen for cases at or near term, and the vaginal hysterotomy for those of eclampsia before the seventh month of

gestation

The best results so far reported have been obtained with the conservative treatment of Dublin and Stroganoff The intravenous injection of 20 c cm of roper cent magnesium sulphate every four to six hours supplemented by the administration of a saline cathartic or simple enema is a comparatively new procedure but most effective It is based on the theory that the convulsions and restlessness are due to edema of the brain. The magnesium sulphate, acting as a industric, removes the cedema, and acting as a sedative, quiets the restlessness. After its use the blood pressure is lowered, the cedema disappears, and there is marked improvement in the patient's general condition

Since this procedure has been used in the Los Angeles General Hospital it has been unnecessary to resort to cæsarean section in any case of eclampsia treated in that institution

Magnus P Urnes, M D

LABOR AND ITS COMPLICATIONS

Lankford B The Preparation of the External Genitalia for Delivery with Iodine Alcohol A Report of 100 Cases So Treated, with the Bacteriological Results Am J Obst & Gynce, 1926 M 219

In 100 obstetrical cases in which the patient was prepared for delivery with iodine alcohol swabs were taken from the greater and lesser labba and from the skin near the vulva. None was taken from directly over the anus although that area was included in the preparation. Nine positive cultures were obtained

In seven staphylococci were found in one colon bacilli and staphylococci and in one colon bacilli alone. Not one of the patients with a positive culture had a febrile temperature and fever occurred in

only three of the 100 cases

Forty five of the patients were primipare. Thirty three had one rectal examination twenty seven had two, fifteen had three seven had four two had five three had six and two had seven. Thirty eight had one vaginal examination in addition to any rectal examinations they may have had seven had two vaginal examinations and one had three. The for ceps were used thirty eight times.

ceps were then durity eight times. The author reviews also noe obstetrical cases in the author reviews also noe obstetrical cases in shaining and scrubbing with soap and water followed by the application of the soap and water followed by the application of the soap and water followed by the application of the soap and the soap a

curred in forty three and fever in fourteen

E I CORNELL M D

Katz H Difficulties in Labor in So Called Partial Retroflexion of the Uterus and Their Manage ment in Cases of A vanced Pregnancy (Ueber die Geburtsstoerungen bei sogenannter Retroflevou uter partials und thre Behandlung in Faellen weit vorgeschrittener Schwangerschaft) Monalischer f Geburish in Gynock 1925 [xx 147

The author applies Wertheim's term partial retroflexion of the uterus only to cases in which with primary retroflexion of the organ the entire fundus or one hora remains incarcerated in the true pelus. Cases of this type are very few especially in the advanced stage of pregnancy. Katzreports a case seen in the First Gyncological Clinicin Vienna

The patient was a 36 year old para v In contrast to her previous pregnances this pregnance, had been associated with considerable pain in the lower abdomen nausea and vomiting and she said that the child was always low down never up. When sitting she had the feeling that the contents of her abdomen were being drawn downward and when standing or bending she felt as it the child would come out through the rectum. She complained of dysproza

Examination revealed slight cyanosis of the lips and marked edema of the cyclids and legs. The urine showed 2 per cent albumin cylinders and expitincy tes. Albuminium criticities was resent to external examination nothing abnormal could be external examination nothing abnormal could be victimated by the country of the c

As the fetal heart tones became weaker two days after rupture of the membranes the attempt was

made to introduce a colpeurynter. This was un successful as it was impossible to introduce the bal loon into the external os above the symphysis pubis without force.

The nature of the condution was revealed when the patient was examined under nacrosis. As the examining finger entered the shortfeide cervical canal through the external os with two fingers didatation it met an obstruction in the region of the posterior part of the internal os. This obstruction arety hard transverse spur about 1 1/2 cm high extended under the lumen of the cervical canal. The anterior portion of the internal os was soft and dilatable. Over the other control of the internal os was soft and dilatable. Over the other control of the posterior wall of the uterus which extended down into the posterior vall of the vagina and was strongly adherent to the underlying tissues.

The diagnosis was pouching of the posterior uterine wall as the result of adhesions in a primarily

retroflexed uterus

Because of the occasional failure of the fetal heart tones it was decided to terminate the pregnancy by removing the uterus at laparotomy. This decision seemed justified also because it appeared that the uterus was diseased and unfit for subsequent pregnancies and because the patient had a weak heart and altrady had several living children. In order to prevent all danger of peritonitis the uterus was removed unopened. A complete recovery resulted in the usual length of time.

(NAME OF THE OF TH

Stone E L Dilatation of the Cervix Uterl by Means of the Hydrostatic Balloon Am J Obst & Ginec 1926 vt 314

The best means of artificially dilating the cervix of the pregnant uterus has never been establi hed on a perfectly satisfactory basis. As a consequence the operation is performed in many different ways and has been the subject of considerable controversy

The author finds that the hydrostatic bag is applicable to the greatest number of case types serves well in complications of pregnancy after the fourth month most accurately simulates the physio logical mechanics and best assures the welfaire of the mother and child E. L. CONNELL M.D.

Kellogg F S The Treatment of Placenta Prævla Based on a Study of 303 Consecutive Cases at the Boston Lying In Hospital Am J Obst & Gyncc 1926 x 194

From a study of 303 consecutive cases of placenta prævia the author draws the following conclusions All cases of central and partial placenta prævia are best treated by low abdominal cæsarean section whether the baby is vable or non viable living or

Marginal placenta prævia is best treated by Voor hees bag induction

In the cases of moribund or very sick patients with placenta prævia rest should be given bleeding should be controlled by whatever methods necessary in cluding tight packing of the cervix and vagina and pressure over and above the fundus, a transfusion should be given operation should be performed when the pulse rate and pressure have reacted, and another transfusion should be given postoperatively. An effort should always be made to determine as nearly as possible how much blood has been lost in order that the same amount may be replaced. A direct transfusion is probably better than the transfusion of citrated blood if time, apparatus, and knowledge of the technique permit. Otherwise a simple citrationshould be given immediately since un questionably a quick, well done citrate transfusion is superior to a poor direct transfusion.

The author believes that in many cases a hysterectomy should be performed following section. The advisability of this operation depends upon the risk of sepsis as indicated by the history, the occurrence of prisistent bleeding after the section, and the patient's number of dependent children and it appears that a hysterectomy would improve her chances of

health, the operation should be done

Potas in the discussion of this report, stated that partial placenta previa has been treated with success by waiting and vaginal packing, the mortality in such cases being reduced far below that in cases treated by the introduction of a bag or bipolar version. When there is an area of bleeding uterus alongside the placenta control of the bleeding follows rupture of the membranes and firm packing and delivery will occur spontaneously. Polak agreed with Kellogg in regard to eassarean section in cases of central placenta prayia in which the amount of blood lost has not been great the pritent is in good condition and the condition of the certifies good

PORTER called attention to the fact that to in crease the blood pressure by a transfusion before closing the opening through which the blood is lost

is usually a dangerous procedure

E L CORNELL M D

PUERPERIUM AND ITS COMPLICATIONS

Colebrook L and Fry R M Some Laboratory Investigations in Connection with Puerperal Fever Proc Rsy, Soc Med Lond 1920 viv Sect Obst & Gynzec 31

Streptococcus hamolyticus is the causative factor in the majority of septicemias and also predominates in localized puerperal infections. In non-septicemic febrile cases an ilmost pure culture of this organism is obtained from the cervical canal. The organism most frequently found in the very mild cases are diphtheroid bacilly and staphylococcu.

The presence of a distinct streptococcus of puer peral fever has not yet been demonstrated. With regard to the possibility that puerperal infection may have its source in the vagina or rectum the authors state that the streptococcus hemolyticus can rarely be cultivated from the rectum of normal women and does not occur in the vagina. Its occurrence is most common in the upper respiratory.

tract The non hamolytic streptococcus is easily killed by leucocytes and therefore gives rise to little trouble

Because of the presence of a leucocy tosis, the resistance of women in and just after labor tends to be higher than that of healthy adults generally. This leucocytosis protects against infection in the most dangerous period, ie the first six hours after labor. Therefore, in suspected cases of puerperal infection, a leucocyte count should be made immediately after labor, and if it is below 12,000, a leucocytosis should be induced by an injection of nuclein.

The factors which determine whether an infection will remain localized to the pelvis or develop into a blood infection are (i) the virulence of the infecting streptococcus upon human blood and the human organisms (2) the mignitude of the infection and the local condition at the site of infection, and (3) the

patient s resistance

Puerperal septicæmia may be regarded as a disease of leucocytes. Knowledge of the number of bacteria per cubic centimeter of blood is necessary to deter mine the treatment to be adopted and to judge as to

the prognosis

As treatment the authors advocate injection into the uterus of glycerine, hypertonic salt solution or Dal m's solution for the establishment of a continu ous flow through the infected tissues to prevent the stagnation of serous and tissue fluids. They recommend also blood transfusion and the use of arsenical drugs of the neosalvarsant type

MAGNUS P URNES, M D

I hillips H J The Treatment of Puerperal In fection by Intra Uterine Injections of Glycer ine Proc Roy Soc Med, Lond, 1926 xix, Sect Ob t & Gynge 26

A lacerated cervix with an actively suppurating vagina teeming with micro organisms may easily infect the uterine wall or the endometrium

The spread of an acute local infection may be prevented by promoting a flow of lymph through the

uterine wall into the uterine cavity

Very satisfactory results have been obtained with glycerne which is a powerful tissue dehydrant, remains in contact with the tissues for a considerable time because of its viscidity and can be delivered slowly and evenly over the interior surfaces of the uterus

Gynecological preparation is given with attention to individual lesions and cleansing of the cervix and cervical canal. A to c c m syringe to which a No 6 soft rubber terminal eyed catheter is attached is filled with pure glycerine. The catheter is pushed up to the fundus and the glycerine slowly injected. Sterile gauze is tied to the free end of the catheter which is pushed into the vagina, the gauze protruding beyond the vulva. After six hours the catheter may be removed by traction on the gauze.

This injection treatment is given once or twice daily and repeated until all signs of active inflamma-

tion have subsided

Willan R J A Clinical Lecture on Diagnosis by Pyelography Bril M J 10 6 1 400

Pyelograms are best made with the patient on the table on which the catheterization is done. A pyelo gram should never be made with the patient under general anysthesia A 135 per cent solution of sodium jodide is used as the contrast medium

Following a review of the normal anatomy of the kidney Willan describes the pathological changes which cause an alteration in the pyclogram

Normally the calyces are grouped into three main divisions the upper the middle and the lower and the solid medullary cone projects into the pelvic calyx The club shaped outer end of the calyx is

indented by the medullary cone In pyelonephritis there is absorption of the renal pyramid resulting in a knob like cally in the pyelo gram This is especially marked in hydronephrosis Cases of nephroptosis which show a cupping of the calvies in the pyclogram should be treated mean

cally as in such cases there is no back pressure. In cases showing a knobbing of the calyces an obstruc tion is present and nephropexy may be found

In congenital cystic kidneys the pyelogram reveals marked enlargement of both the renal pelvis and the calvces

In tuberculosis of the kidney an abscess is usually formed and may rupture into a cally. The contrast substance injected into the kidney pelvis gains en trance to the abscess cavity producing a shadow some distance from that caused by the pelvis and calvces

A hypernephroma invading one or the other pole

obliterates the calvees at that pole

A diagnosis of essential harmaturia is justified when the urme contains blood but no pus or casts and the blood pressure bladder and pyelogram are normal The author reports seven cases supplementing the ALTON OCHSNER M D histories with pyelograms

Hinman F and Morison D M Experimental Hydronephrosis Arterial Changes in the Pro gressive Hydronephrosis of Rabbits with Com plete Ureteral Obstruction Surg Gynec & Obst 1926 xlii 200

In experiments performed by the authors on rabbits the left ureter was double ligated and divided and the animals were killed after from seven to sev enty days Two animals were killed at a time. In one only an arterial injection was made and in the other the arterial injection was combined with injection of both ureters

The first injection fluid used consisted of four parts of celloidin solution to 100 parts of acetone deeply tinted with alkanin. This solution was in jected at a pressure of 600 mm Hg After mainte nance of the pressure for ten minutes a twenty part celloidin solution was substituted and the pressure then kept between 400 and 500 mm Hg for fully twelve hours During the entire process of injection the specimen was kept immersed in water

When it was desired to obtain pelvic and arterial casts the ureters were injected with a twenty part colorless solution of celloidin at a pressure of about So mm Hg

To ensure complete setting of the celluloid injection mass the specimen was kept under water for fully twenty four hours positive pressure being kent up at the points of injection. At the end of that time the specimen was carefully skinned and cor roded in pure by drochloric acid. After corrosion for from twenty four to forty eight hours the celluloid casts were washed free from the digested tissues with a stream of water

These studies showed that the arterial circulation of the rabbit's kidney is di tributed in two different planes within the parenchyma in relation to the pelvis of the kidney. The main subdivisions of the renal artery pass around circumferentially whereas the finer branches are distributed radially to the

cavity of the pelvis

With the production of hydronephrosis the arterial circulation undergoes two phases of alteration. The first phase which occurs at the onset is relatively short and appears to be due for the most part to a purely mechanical interference. In the second phase which soon supervenes there is in addition to the mechanical interference but consequent upon it a reduction of circulatory function which accelerates the development of hydronephrosis until complete atrophy results

When ureteral obstruction occurs the renal pelvis dilates and this dilatation produces progressive compression of the enveloping parenchyma. Since the finer arterial branches traverse the parenchyma in a direction radial to the cavity of the pelvis they are subjected very early to compression in their long axes and consequently become tortuous and foreshortened

On continued obstruction the organ increases in circumference Consequently all structures pursuing a circumferential course through the parenchyma are subjected to a process of stretching or lengthen ing Since the arteries are elastic tubes they become attenuated and their lumina become smaller is then a reduction in the blood supply leading to ischæmia loss of tissue tone and progressive atro-HARRY W. PLACGEMEYER M.D.

Hinman F and Veckl M Pyelovenous Back Flow The Fate of Phenoisulphonephthalein in a Normal Renal Pelvis with the Ureter Tied J Urol 1026 xv 267

The authors state that under gradually increasing pressure in the renal pelvis a back flow of the pelvic contents into the renal vein occurs and the back pressure producing it is less than the excretory pres sure When this has once been established it will continue under lower pressure

In experiments on rabbits 2 ccm of phenol sulphonephthalein was injected very slowly into the renal pelvis and the ureter was ligated these animals were sacrificed after twenty four hours three after forty eight hours, two after minety six hours, and three after one hundred and sixty eight

In each group the bladder was catheterized at the end of twenty four and forty eight hours and the amount of dye estimated. The animals were then killed and the dye remaining in the pelvis was estimated. It was found that practically all of the dye disappeared from the pelvis within four days and that very little was left after two days. These findings indicate that an active flow of dye occurred through the completely tied off renal pelvis.

In conclusion the authors state that the content of a closed hydronephrosis is neither cumulative nor stagnant, but undergoes a continuous change, fresh material being secreted by the kidney and the excess being removed by an active re absorption which occurs mainly through pyclovenous back flow

7 Synvey Retree, M D

Bird C E and Moise, T S Pyelovenous Back Flow J Am M Ass, 19 6 lxxxvi 651

The authors have repeated in a modified manner the experiments of Hinman and Lee Brown relative to pyelovenous back flow. Their results show that, in the dog s kidney under conditions of gradually increasing intrapelvic pressure ranging from 10 to roo mm Hg, aqueous solutions and suspensions of India ink in physiological sodium chloride solution pass readily from the renal pelvis into the collecting tubules through the convoluted tubules and the loops of Henle into Bowman's causales

Hinman and Lee Brown state that injection of the deeper renal tubules is impossible by way of the ureter, even when a pressure approximating 400 mm. Hg is used. The phenomenon which they designate as 'pyelovenous' back flow' they believe occurs under conditions of moderately increased intra pelvic pressure both in the living and in the recently removed kidneys of sheep rabbits and dogs. The authors think it more likely that if a back flow of pelvic contents occurs, the ruptures allowing the flow take place in the areas of apposition of the small tubules of Henle's loops and the convoluted tubules with the large straight and arcuate veins. Their experiments do not support the conception of a true prelovenous back flow. Join & Cheffithm M.D.

Schwartz J Polycystic Disease of the Kidneys— Report of Six Cases N Lork State J M 1926 xxvi 231

Schwartz defines polycystic disease of the ludneys as a congenital maliformation in which generally both kidneys show a conglomeration of cysts separated by fibrous septa. The condition was found sixteen times in 10 000 autopsies and ten times in 1,422 autopsies. Of the author's six cases, five were those of females and in only three was the diagnosis established clinically. One of the patients, a fully developed in faint born at full term dued an hour after brith. This child had a large abdomen with a tumor the size of an orange in each flank. Its mother had had two

other children, one of which died from the same

The author's second case was that of a woman 67 years of age who had been treated two years previously for nephritis and died of uræmic coma two days after her admission to the hospital Atautops, two large polycystic kidneys were found

The third case was that of a woman 47 years of age who complained of fever and chills Examination revealed two irregular masses the size of oranges, which corresponded to the hidneys. The urine contained albumin hy aline and granular casts, pus, and blood. Puncture of the cysts was followed by recovery, but the patient died six months later of ure must

Case 4 was that of a man of years old who had a large mass in the right side of the abdomen, extend ing from the ribs to the linac crest. The urine contained no casts or blood, but showed a z z per cent sugar content. At exploratory operation, both kidneys were found to be polycystic. The patient died a few hours later from gas bacillus infection, but no organisms were found by culture.

Case 5 was that of a woman 44 years of age who complained of pain in the lumbar region, headache, nausea vomiting, fever, and a tumor mass on each side corresponding to the kidney. The urine con tained albumin casts blood and pus. The patient died three weeks after her admission to the hospital.

The sixth case was that of a 46 year old woman with headache nausea, and multiple abscesses, fever, and two large tumors in the abdomen. The urine showed no casts. The patient died of uremia one week after her admission to the hospital. Autopsy revealed two large cystic kidnets.

Poly cystic disease of the kidneys has been attributed to neoplasms and retention but the theory that it is a congenital condition has been most generally accepted. It has two stages tumor and nephritis.

Bilateral tumors corresponding to the kidneys, hypertension and signs of nephritis are pathogno monic. The diagnosis may be confirmed by means of a pyelogram

The prognosis is grave. After the appearance of kidney insufficiency the decline is rapid. If there are no symptoms the patient should have good care but should be let alone.

BENJAMIN I ROLLER, M D

Kilbane E F Renal Sepsis Associated with Manic Depressive Insanity Am J M Sc 1926 clxx1

In reporting a case of renal sepsis associated with manic depressive insanity, Kilbane emphasizes the importance in all cases of mental disturbance of a complete physical examination for the discovery of some focus of infection or disease which might be re sponsible for the mental condition.

There is no doubt that in the author's case the mental disturbance was due directly to the renal sepsis for after the removal of the diseased kidney

the manic depressive insanity which had been pres ent for over nine months cleared up entirely in nine days J SYDNEY RITTER M D

Medlar E M Renal Tuberculosis Clinical and Experimental Basconsin M J 1026 XXV 50

Medlar believes that renal tuberculosis as seen by the practicing physician is a very late stage of the condition He studied twenty six cases in the early stages before extensive destruction had occurred and at the same time made a careful search for healed lesions. In all but one of the cases pulmo nary lesions were found at autopsy. As it was im possible to section the entire kidney the specimens were cut in strips about 2 mm thick and any gross lesions found in these strips were sectioned serially When possible both kidneys were studied but in the majority of the cases only one kidney was obtainable for study

Medlar states that tuberculous lesions of the kidney are extremely common in long standing pul monary tuberculosis Tubercle bacilli are brought to the kidney through the blood stream In eight of ten cases in which both kidneys could be studied the lesions were bilateral. In the author's opinion, tuberculous infection of the kidney is simply a part of the picture of a hæmatogenous distribution of

tubercie bacıllı

Renal tuberculosis may be present without any clinical manifestation and without the presence of tubercle bacilli in the urine. In two of the cases studied there was apparently no macroscopic renal lesion but Medlar believes that if it had been pos sible to make serial sections of the entire kidney

tiny lesions would have been found Six of the cases studied showed scars in the kidney without any active tuberculous lesion and twelve showed scars with definite tuberculous lesions Such scars do not indicate the nature of the pathological process that preceded them they are the result of a reparative process. It is impossible to find tubercle bacilli or any infectious agents within their bounda Their interpretation depends largely upon an understanding of the pathogenesis of the various in fectious and noninfectious renal lesions in which the phenomena of inflammation and repair play a part Medlar was careful to rule out lesions which might have been caused by arteriosclerotic or other vas cular conditions

Some of the scars studied showed moderate lym phocytic infiltration. In others there were areas of more or less compact old fibrous tissue In two cases there were bits of old caseous material and in an other case a walled off caseous area was found. In no instance was it possible to demonstrate tubercle bacilli in the lesions or an active inflammatory reaction

In Medlar's opinion the difference in appearance depends upon the age of the reparative process and whether or not caseation had occurred in the original lesion A point (proving that the scars are healed tuberculous lesions is the simultaneous presence in

the same kidney of scars and definite tuberculous lessons In cases of long standing pulmonary tuber culosis tubercle bacilli bacteræmia occurs at inter vals This would cause lesions of different ares in the kidneys

Medlar noticed considerable variation in the cyto logical reaction of the tuberculous lesions This de pends wholly upon the number of tubercle bacilli in the lesion. When a large number of tubercle bacilly were found the lesion resembled an abscess more than a tubercle since polymorphonuclear leucocytes predominated From the cellular reaction Medlar can predict with a fair degree of accuracy the ease with which tubercle bacilli can be found

The acute type of lesion is the one in which casea tion and ulceration are likely to occur at a later date Such lesions which are very small have been ob served in the glomeruli and in the tissue between the tubercles both in the cortex and in the medullary zone Frequently they show erosion into the adjoin ing tubercles with inflammatory exudate and tuber cle bacilli within the lumen of the tubercle From this fact Medlar concludes that tubercle bacilli may be found in the urine in cases in which only miliary tubercles are present in the kidney When the tubercle bacilli are few and the conditions are unfavorable for tubercle multiplication the typical tubercle is found. This does not go on to caseation but shows definite evidence of a reparative process Eventually this type of lesion develops fibrous tissue and occasionally it is identified as the lesion of tuberculosis by the presence of a giant cell

From his studies Medlar draws the following con

clusions

I Tuberculosis of the kidney is very common in cases of advanced pulmonary tuberculosis

2 The infection is blood borne and bilateral in volvement is undoubtedly the rule 3 Many cases of renal tuberculosis do not give

clinical symptoms pointing to such bilateral in volvement

4 Sufficient evidence is at hand to warrant the assertion that tub reulous lesions of the kidney may heal

The mode of infection and the distribution of the lesions in the kidney of the guinea pig and the human kidney are similar As the essential organic structure of the kidney in man and the guinea pig is the same it seems logical to assume that, in clinical cases also the presence of tubercle bacilli in the urine is positive proof of the presence of ulcerative tuberculous lesions in the kidney

In conclusion Medlar states that nephrectomy should be advised only when there is considerable destruction of the kidney when tubercle bacilli are found in the urine from that kidney at repeated examinations made at considerable intervals of time when tubercle baculh are not found in the urine of the opposite kidney at repeated examinations and when proper medical treatment has failed to cause the desired improvement

GILBERT I THOMAS M D

keydel K The Diagnosis and Differential Diag nosis of kidney and Ureteral Stone (Nierenure tersteine hinsichtlich ihrer Diagnose und Differen tialdiagnose) Verhandl d deutsch Gesellsch f Urol 1925 P 94

The author has observed cases of repeated renal colic in which it was impossible to demonstrate one of the usual causes The microscopic examination of the urine was variable, sometimes showing a sediment of uric acid crystals, sometimes a stronger sediment of amorphous earthy phosphates, and occasionally red corpuscles In two of such cases which came to operation definite contraction waves were noted in the exposed kidney pelvis, but no stone or other abnormality was found

Keydel concludes that in cases of this type the colic is due to chemical irritation of the kidney pel vis, especially of the ureter, by an excess of gravel He briefly states the signs that are of aid in the diagnosis True contracted kidney is not infrequent ly associated with phenomena suggesting stone Pain may be caused by a stone left in the ureter after

nephrectomy

The article contains brief case histories

VON HOFFMAN (Z)

Hinman F The Indication of Nephrostomy Pre liminary to Ureterorectoneostomy J Am W Ass 1926 lvxxv1 921

The author discusses the various conditions in which ureteral transplantation is indicated such as exstrophy of the bladder, cancer of the bladder or neighboring organs with extension to the bladder in which cystectomy is necessary accidental ligation of, or injuries to, the lower end of the ureter and tuber culosis of the bladder. It has been found that in cases in which there is extensive tuberculous involve ment of the bladder before the tuberculous kidney is removed the remaining kidney, although not tuber culous, may develop a progressive hydronephrosis from obstruction due to the contracture and fibrosis

of the badly infected bladder The author believes that the best part of the gut for transplantation of the ureters is the rectum but points out that the unfortunate feature in any ure teral transplantation is that it prevents the surgeon from subsequently treating the kidney or ureter on that side by urological methods. Regarding neph rostomy as a preparatory measure to ureteral transplantation he states that such a procedure would be logical in those desperate cases in which although the patient may die after the ureteral transplantation, he will most certainly die if the ureter is not transplanted. He says, The lumbar drainage leaves an avenue of direct treatment and free outlet for the urine from the kidney matter of fact one could now do as he wished with the lower end of the ureter Such nephrostomy drainage would do away with the danger of early ascending infection and of obstruction from the early cedema during the time of healing thus obviating the need of tubes and their dangers

'Through such a nephrostomy opening after ureteral transplantation the lower ureter can be flushed from above in the natural direction, and, if necessary its lower end gradually dilated by the passage of catheters through the nephrostomy open ing In this treatment of course, catheters should be drawn on through the rectum and not back by way of the nephrostomy opening

The author has used preliminary nephrostomy successfully in two cases of advanced tuberculosis of the bladder. He does not believe it is indicated in all cases in which ureteral transplantation is necessary but states that especially when only one kidney remains and the ureter is hypertrophied and dilated it will prove a safeguard that will materially lower the immediate mortality of the procedure and greatly promote its ultimate success

HENRY L SANFORD MID

BLADDER, URETHRA, AND PENIS

Rose D k Stages in the Formation of Bladder Diverticulum South M J 10 6 xix 206

As the result of a clinical and histological study of bladder diverticula the author concludes that all diverticula are congenital to the extent that an un protected or direct loose fibrous tissue pathway must be present in the bladder wall before a herma tion can result. The time of life at which diverticula occur is determined by two factors the area in the bladder wall that is unprotected by criss crossing muscle bundles and intracystic pressure Thus, the formation of diverticula in childhood is dependent chiefly upon the presence of large, unprotected areas in the bladder wall while the formation of diverticula in old age is due chiefly to increased intracystic pressure the unprotected areas being smaller The relative absence of muscle in diverticula suggests hermation. When muscle is found it is usually a stray muscle bundle which due to fixation by infection or the accidental location of bundles has not slipped down to the base of the dissecting cellule The usual location of diverticula coincides with the most probable theoretical location. The difference in fixation at the trigone of the male bladder as compared with the female bladder is an important factor explaining the relatively greater occurrence of diverticula in the male

In one of the author's cases the development of the diverticulum could be plainly seen through the cystoscope merely by increasing the intracystic pressure Early removal of any type of bladder ob struction is especially indicated if a predisposition to diverticulum formation is suggested by the presence of one of its early stages, such as a ballooning cellule JOHN G CHEETHAM M D

Hirsch E W Urethral Mucosa and Glands An Anatomical and Histological Study J Urol 10 6 XV 293

While perhaps a hundred articles are written each year on the treatment of gonorrhoa in the male

and while potent drugs are available for such treat ment it still requires a considerable amount of time to kill the genoeoccus when it inhabits the urethra. One of the most important reasons for this is that the organism gross best under slightly an aerobic conditions and therefore finds within the ure thrial glands and lacune an ideal site for multiplica

In a review of available textbooks on anatoms, histology, venerology, and urology in English French German and Latin the author found widely diverse descriptions of the glands and lacinar. Few investigators have studied the urethra and many urologists have accepted earlier writings on the assumption that they represented original work. Shaffer's Lehrbuch der Histologie contains an illustration of the urethral mucosa taken from a text printed in 1862.

The author's antonucal and histological study reported in this article was mide on urethrae obtained from four to twenty four hours after death and opened down the ventral surface with the exissors. The number position and size of the la cunawere noted Sections 1 cm thick were then made of the entire urethra. Two urethrae were not opened but were sectioned throughout their length perpendicularly to the long axis so that the arrangement of the glands on the walls of the urethra could be studied.

Galen described the urethra rather vaguely or perhaps crudely De Graaf in 1668 mentioned a secretion in the normal urethra. This fluid was next mentioned by Littre who described the mucous glands called Littre sglands or glandulæ ure thrales. In 1766 Morgagin described the depressions on the upper wall of the urethra known as the

crypts of Morgagm or lucunæ urethrales. The urethral glands extend posterorly from the posteror border of the fossa naviculars. The diameter of the average follucian duct varies from 0 og to 0 of mm. The average duameter of the gland body varies from 0 og to 0 mm. The average depth is from 0 og to 0 i mm. The average aubmucous gland is from 0 3 to 0 i mm. The average aubmucous gland is from 0 3 to 0 i mm. The average aubmucous gland enters the urethra at a right or an oblique angle white the body of the gland bends at an oblique angle to the duct and is afferted bladder.

Urethral glands are found in the membranous and anterior urethra but have not been proved to exist

in the prostitic urethra

The lacuna urethrales of Morgagni are visible depressions in the upper wall of the urethra begin ming from 4 to 6 cm from the meatus and extending posteriorly for about three fifths of the length of the urethra at times almost to the membranous urethra. While they are frequently described as a single row the authors study shows them to be variously arranged and their number to vary from four to sixteen. At the mouth they measure from 2 to 3 by 0,5 to mm. Their average length is from 5 to 1 mm. They are the first of the

have no glandular function and they are not con nected with the urethral glands. They are directed backward and end as blind sacs

Urethral glands and lacune are most important structures for being directly connected with the urethra they are involved in almost every case of gonorrhead urethrius. The urethral glands are not connected with lacune. The glands secrete a small amount of mucus which protects the urethral wall from the acidity of the urine and during erection facilitates the passage of semen

More progress will be made in the treatment of gonorrhea when further studies are made of the structure of the urethra and the pathology of the glands lacunæ and mucosa

CLAUDE D HOLMES M D

GENITAL ORGANS

Reinle G G Prostatic Obstruction California &

Reinle says that the mortality resulting from pros treetomy is 25 per cent for some surgeons 15 per cent for all surgeons and 3 per cent for surgeons employing all known precautions and safeguard

In every case of difficult urination the abdomen should be palpited for distention of the bladder the presence of residual urine determined and the prostate palpated through the rectum

Palpation of the abdomen after the patient has voided will disclose whether or not the bladder is unduly distended. If in a case of distention the bladder is emptied by the cutheter inserted to give relief or to determine the quantity of residual urine the result may be disastrous.

In palpation of the prostate the finger should be inserted into the rectum and the upper border lateral margins and median growe of the gland explored One of the most common errors is not reaching high enough into the rectum to insert the finger up over the upper border

The type of obstruction will indicate the nature of the operation required Frequently this information can be obtained only by cystoscopy

In cases of great distention of the bladder it was formerly the practice to insert a catheter and first draw off about half of the urine and then at intervals draw off more. This method was an improvement over rapid emptying but was not ideal because relief of the back pressure was intermittent.

Van Zwaluwenburg conceived the idea of attaching the catheter to a long tube leading the tube to a receptacle placed at such a height that the pressure of the urine in the tube just a little less than balanced the pressure in the bladder and then gradually lowering the receptacle over a period of days until it was at the level of the bladder and the bladder was completely emptted

The patient is ready for operation when decom pression has been accomplished gradually the blood pressure has returned to the normal and there is no undue spread between the systolic and diastolic

readings. At this time, the phthalein output which invariably drops below normal during decompression has come back to somewhere around 6, per cent The blood urea will be between 10 and 30 gm per 100 c cm, the blood creatinin about 1 gm per 100 c cm, the urine output about 3,000 c cm per twenty four hours and the patient's mental condition great ly improved

It is generally conceded to be a matter of no great moment which operation is performed if it is per formed well

The author describes his plan of operation briefly Louis Gross, M D

Hunt V C Hæmostasis in Suprapubic Prostatectomy Ann Surg 19 6 lexxus 381

In the last twenty five years there have been radical changes in both the suprapubic and perineal meth ods of performing prostatectomy. This has led to new standards for the end results of these operations With the improvements in the technique of the operations the ultimate functional results of the two methods have been equally good in the hands of those skilled in the respective methods

The mortality in prostatic surgery depends upon pre operative preparation, the type of anæsthesia and hamostasis Hunt believes that the pre-opera tive preparation of patients and the anaesthetic used at operation have both helped in lowering the mor tality rate in this type of surgery but that the im portance of complete hæmostasis has not been sufficiently emphasized heretofore. The effect of blood loss following prostatectomy has been mini mized However the loss of blood for several days following the operation has lowered the patient's resistance to infection and depleted his organic re serve

Various methods have been utilized which ten ded to control bleeding partially and ultimately to decrease the total loss of blood Massage of the prostatic capsule immediately after removal of the gland has to some extent controlled the loss of blood from the interior of the capsule. Irrigation of the capsule with hot solutions has all o been advocated Packing of the capsule with fat or ingenious tampons has been of some value in preventing excessive loss of blood Some success has been obtained also by various suturing methods Thromboplastic sub stances such as kephalin have been employed. Be fore the use of the Hagner bag and Pilcher's modifi cation of it the best method of controlling bleeding from the capsule consisted in packing with iodoform gauze but in the removal of this gauze secondary hæmorrhage was occasionally precipitated

The bag devised by Hagner answered a distinct need in prostatic surgery and served as an excellent means of producing hamostasis within the prostatic capsul. It did not precipitate bleeding on its re moval Pilcher's modification of Hagner's bag pro vides for urethral drainage of the bladder conforms to the contour of the prostatic capsule and can be maintained in position by means of traction

The bag may be used in either the one stage or the two-stage operation. It is used in the one stage visual ized operation to supplement the sutures around the vesical neck and controls capsular bleeding. It has seemed advisable to prevent the Pilcher bag from entering entirely within the prostatic capsule, the best result being obtained when it impinges on the vesical neck or internal sphincter. The bag is inflated with water and held in place by gentle traction on the urethral tube. The amount of distention and traction necessary to control bleeding is somewhat variable. The distention varies with the size of the Excessive distention may be harmful to the sphincters of the bladder. The average distention pressure in a large series of cases was 140 mm Hg The bag is maintained in position by traction on the urethral tube obtained by means of a modified Hamer perineal tripod

In the early cases in which the bag was used 25 per cent of the patients had varying degrees of in continence but of the entire series only two have re

mained totally incontinent

A strong silk cord is attached to a ring in the upper end of the urethral tube in the bag and threaded down through the unothral tube to the exterior. The prin cipal traction to maintain the bag in place is made on the cord This prevents the traction from pulling the bag into the prostatic capsule. For twenty four hours after the operation drainage from the bladder is maintained suprapubically by means of a No 30 male urethral catheter The water is released from the bag sixteen hours after the operation and the bag allowed to remain in place from four to six hours longer If no further bleeding has occurred at the end of that time the bag is removed. A No 16 catheter is drawn into the urethral portion of the bag and follows it through into the bladder as the bag is brought out through the suprapubic incision Urethral drainage allows the suprapubic wound to heal quickly and shortens the patient's stay in the hospital

In 702 cases in which the Pilcher bag was used it was necessary to re-inflate the bag in 4 per cent Secondary hæmorrhage occurred from the fifth to the ninth day in seven cases Seventy five per cent of the wounds healed without suprapubic drainage Hunt concludes that the use of the Pilcher bag is a most effective method of obtaining hamostasis after suprapubic prostatectomy

MISCELLANEOUS

Quinby W C Conservatism in Surgery of the Urinary Tract Internat J Med & Surg 1926 ID YEXX

A successful outcome of an ailment may be practically certain if an organ or an extremity is sacrificed but there is always the question as to whether a reasonably good prospect of cure might not be offered by some less radical operation. To determine the proper form of procedure requires surgical judgment and consideration of the experience of other surgeons

The author states that more free joint bodies in the human subject should be studied with special attention to the characteristic finding of articular actilage attached to os eous spongnosa. The possibility of such a finding is not excluded even when the history does not indicate a traumatic origin with certainty. Such a determination may prove of value in forensic medicine.

Lehmann J C Is It Possible for an Osteochon dritte Joint Mouse to Become Rehealed into Place? (Ist eine Wiedereinheilung osteochondri tischer Gelenkmaeuse meeglich?) Deutsche Zischr f Chir 1045 excil 88

In a series of relatively fresh not loosened or at least not entirely free osterochondritic joint mice evidence of a process of substitution of the dead marrow and osseous tissue was found. In the non vital marrow cavities this substitution appeared in the form of young fibrous tissue rich in cells and vessels and in the bones in the form of cartilagmous and osteod itsue reticular bone and lamellary strati on the trabeculæ of the spongosa which apparently were without nuclei (non vital).

On the dorsal surface of the joint mouse and also on the fracture surface of the provumal fragment were irregular areas of hyaline cartulage which in many cases bordered a line of division (hseudrithrosis formation) and in others formed a bindge between the newly formed bone in the subchondral region and that on the border of the deeply penetrating osteo chondratic focus. The latter findings suggest a complete reconstruction of the area.

The histological picture in osteochondritis disse cans (osteochondrolysis) is similar to that of Perthes and Koehler's disease and in the latter conditions also joint mice are found

A chausen's theory that in osteochondritis the findings are due to a pathological fracture is the most pluusible. The author does not accept the thory of a mild necrotic form of embolism. The question of the character and cause of the vascular closure is still unanswered.

Smith A DeF The Pathology of Joint Tubercu losis in Its Earlier Stages Arch Surg 1926 xn 740

The routine practice in the New York Orthopedic Dispensary is to make an absolutely certain diagnosis in every early case of suspected joint tuberculosis If guinea pig inoculation fails an exploratory operation is performed. When the diagnosis is positive an arthrodesis is done

From March 1922 to March 1925 190 operations were performed on tubercu ous joints exclusive of the spine. Of these cases a sense of twenty three in which the process was in the early stages were chosen for special study. In seventeen of the twenty three cases the synovial membrane alone was included in three both the bone and sy noval membrane showed tuberculous changes. Since the cases with motive the changes was factored and in three both the bone and sy noval membrane showed

ment of the synovial membrane alone were most numerous the author concludes that tuberculosis of joints originates most frequently in the synovial membrane

In cases in which the synovial membrane is first involved the course of the disease is very slow as compared with cases in which the bone is first in volved. No cases were seen in which the disease was confined to the epiphysis.

ELVEN J BERKHEISER M D

Kuettner II and Hertel E What is Known Re garding Ganglia (Die Lehre von den Ganglien) Ergebn d Chir u Orthop 1025 xvii: 377

Ganglia are cystic tumors with gelatinous contents which occur in the region of joints and in the opinion of the authors arise from misplaced ger minal cells of the connective tissue joint anlage Pathologico histologically they are cysts with fi brouss walls which exhibit hydropic or hydrine de generation of the connective tissue. Ganglia often communicate with a joint capsule or tendon sheath. They differ from burse in that they always occur in the immediate vicinity of a joint while the latter may occur in any part of the body and arise as a result of frequently recurring pull or pressure

Kuettner found a symmetrical occurrence of ganglia in 3 per cent of his cases and is inclined to the opinion that in these as in cases of symmetrical evostoses and enchondromata there may be a hereditary factor.

Ganglia near the wrist joint constitute \$1.3 per cent of all ganglia and occur most frequently in females between the ages of 10 and 25 years. They may develop following strenuous piano or violin playing and similar occupations.

Ganglia near the knee and ankle joints are more common in the male than in the female and develop most frequently after the thirtieth year of age

Trauma may play a part in the development of tumors of this type but is rarely their cause. Gan glia due to occupational injuries are therefore rare. On the other hand it appears that such tumors occur most frequently in persons with constitutional weak ness of the ligament.

The theory of some French surgeons that there is a relationship between ganglin and latent tubercu

loss has not been substantiated
Pain occurs in a ganglion only following a strain
and is not due to the size of the tumor. While small
anglia on the flexor tendons of the fingers may cruse
pain early ganglia the size of a goose egg appearing
in the pophiteal space may be entirely painless and
may not be noticed until late in their development.
The pressure exerted by a ganglion on a nerve often
causes a peripheral disturbance of sensation and
more rarely slight motor disturbances. Ganglia of
the long tendons of the fingers may give rue to the
phenomenon called trigger finger in which the
inger is hindered in flexion at the beginning of the
movement and then lets go with a jerk or smap

In size ganglia range from those the size of a pea on the finger to those the size of a child's head in

the popliteal space

Carpal ganglia are easy to recognize, but the differential diagnosis between ganglia, bursa, and neuroma is difficult when the latter are situated near a joint

In general a ganglion should be extirpated under strict asepsis. Keuther estimates the incidence of spontaneous cure at 16 per cent. The therapeutic measures to be considered are puncture bursting of the ganglion by a blow, subcutaneous discission and total extirpation. Even when extirpation is done the incidence of recurrence is 30 per cent.

In 170 cases of ganglia at the wrist which were seen at the Tuebingen clinic the tumor was on the dorsum in 79 per cent and on the volar aspect in 2 3

per cent

The ganglion appearing on the radial side of the dorsum of the wrist lies in the fossa of Ledderhose on the intercarpal joint between the navicular and semilunar bones on one side and the multangulum minus and os magnum on the other.

The ganglion appearing on the ulnar side of the dorsum of the wrist lies proximal to the ulnar

styloid process

The ganglion appearing on the volar side of the wrist always lies between the tendons of the flexor carpi radials and the abductor policis longus muscles

Between the dorsal and volar groups of gangla appears the dorsovolar ganglion on the radial side of the wrist. In the palm of the hand ganglia occur most frequently near the metacarpophalangeal joints. Ganglia of the elbow and shoulder joints are exceedingly rare.

The modence of ganglia in the lower extremities is 9 per cent. In the foot, gangha are found most commonly on the external malleolus. Occasionally they develop near Chopart's joint, between the cuboid and the anterior process of the calcaneum at Lisfranc's joint, and at the talonavicular joint Ganglia of the popliteal space may occur on the medial and flevor tendons and may reach the size of a tangerine. Somewhat more deeply situated are the medial and lateral supracondylar atheromata of the knee which take their origin from the bursa of the internal gastrocnemius. On the head of the fibula a ganglia may appear which causes irritation of the personal nerve

Multilocular ganglia on the menses the size of a pea are rare 5till more rare are ganglia arising from the liac bursa at the hip joint. The removal of these ganglia should always be done with the use of a tournoutet and under the structest assensi

In conclusion the authors discuss tendon ganglia which occur as foci of cystic degeneration in tendon sheaths or as solid thickenings of the tendons and give rise to the so called trigger finger. They take up also the ganglia of the nerve sheaths which as a rule are situated centrally in the nerve arise from the connective issue of the nerve sheath and pro

duce a spindle shaped or club shaped thickening of the nerve by pushing the nerve fibers aside

A typical location of nerve sheath ganglia is on the peroneal nerve in the region of the pophiteal space Ganglia of nerve sheaths are punful and should always be surgically removed with care not to muire the nerve tissue

Batson, O V, and Zinninger M M. The Experimental Production of Annular Ligaments as an Example of the Influence of Function upon the Differentiation of Connective Tissue Bull Johns Hopkins Hopk, Ball v, 1936 xxxviii 124

The authors conclude from their experiments that a fundamental property of connective tissue is the ability to form fibers under physiological strain and that the various connective tissue bands of the body are developed in response to mechanical forces. The persistence into adult life of structures which are vestigal remnants they believe is due to pull exerted upon these structures.

Their studies of the periosteum in relation to an nular bands seemed to indicate that the periosteum for each bone presents a definite arrangement of fibers and the arrangement always corresponds to the tension applied in the bending of the bone

The article is well illustrated

S C WOLDENBERG M D

Kroh, F Trigger Funger and Stenosung Tendo vaginitis of the Fletor Tendons of the Funger (Schnellender Funger und stenosterende Tendovagin its der Fungerbeugesehne) Arch f klin Chin, 1925 CXXVI 240

The clinical picture of snapping finger and the mechanism of origin of this peculiar disturbance of mothity was described very clearly decades ago. The author sought to increase our knowledge of it by a careful anytomical study of fourteen cases.

The disturbance of motility is often erroneously believed to be in the interphalangeal joint whereas it always occurs at the level of the metacarpophialan geal joint at the point where the tendon sheath is narrowed by the accessory volar lagament

The trigger phenomenon may occur with flexion or extension or both of these movements. The inhibition of the tendon movement may arise as the result of localized thickening of the tendon with an intact or pathologically narrowed tendon sheath or as the result of greater or less narrowing of the tendon sheath due to thickening or chronic inflammation. In the latter condition the disturbance of mothlity may be due to pain and the phenomenon of slipping or perlang may be absent.

The treatment is relatively simple—excision of the volar portion of the diseased section of tendon sheath Microscopic examination of the extirpated speci

men shows a hyperplasa of all of the elements of the tendon sheath. In a more advanced stage there may be a fissuring and vascularization of the fascial tissue of the hgaments, and at an even later stage, hy aline degeneration.

In none of the author's cases was it possible to obtain a definite history of trauma or chrome in flammation of the joints in spite of the fact that the processes found in the tendon sheath suggested these factors. In every case the Wassermann test was negative. Instead of containing fluid the tendon sheath was rather dry. In the cases with the trigger phenomenon the author found at the level of the proximal accessory band (the accessory volar liga ment) a decrease in the cather of the tendon sheath and peripheral to this a thickening of one or both flevor tendons.

BELETT (Z)

Hanson R On the Development of Spinal Verte bræ as Seen on Skiagrams from Late Fetal Life to the Age of Fourteen Acta radiol 1926

From late fetal life up to the agu of 2 years the vertebral body appears in a lateral roentgenogram as divided into three plates one upper and one lower denser plate and a less dense plate between these In the anterior margin of the latter there is seen an excavation in the form of an amputated cone with its base directed forward.

This exeavation is occupied by a vein running close under the pernchondroum or periosceum and continued toward the foramen vertebrale by a branch on each side of the middle line. During the second year of life the excavation disappears except in the lower fixe to seven dorsal and the first and second lumbar vertebræ where it persists up to the age of 14 years.

Between the second and fourteenth years of life the canal formations may have different shapes as

shown in Figs 2 3 4 and 5

In some persons the vertebral body has a statrcase like outline at its two anternor corners as shown in Fig 6. The epiphyses are formed in these statrcase like structures (Fig 7). As the author has found this kind of vertebra in persons with a rounded back be assumes that in some cases the peculiar shape of the vertebra may be the anatomical foundation of ky nhouss.

Hanson has found epiphyses in a child aged 6 years although it has been stated that they do not occur before the age of 11 years. He has discovered the described canal formstons in all cases examined —in fetuses 35 cm in length and in children of all ages up to 14 years. As they are largest in the verte bire which are most frequently involved by tuberou loss he assumes that the extensive venous system of these vertebric may favor the retention of tubercle bacilli.

Freedman A C An Anatomical Note on a Possible Source of Error in the \ Ray Findings of the Normal Vertebral Column Canadian M Ass J 1926 xvi 44

The author reports the case of a man 25 years old who sought treatment for two paraful nodules on his back situated 1/2 in lateral to the eleventh and twelfth spinous processes Lateral roentgenograms showed fissures running transversely through the centers of the bodies of the tenth eleventh and twelfth dorsal vertebræ

The clinical diagnosis was pulmonary and intestinal tuberculosis

At autopsy the clinical diagno is was confirmed for two painful nodules were found to be under the deep fascia of the muscles of the back and not connected with the spine. Rontgenograms of the excised vertebral column showed the same fis utes a ten roentgenograms taken during, life A signitual ection through the vertebral column revealed cutuning transversel through the center of the bod ies of the vertebrar from the minh thoracce to the fifth lumbar more or less complete horizontal channels dividing each vertebra into an upper and lower to join a longitudinal pletus of vertebra from the center of join a longitudinal pletus of vertebra channels corresponded to the fissures seen in the roent senorarias.

The author describes the embryology and the development of these structures

The case history is illustrated with several photographs and roentgenograms of the spine

FRANK G MURPHY MD

Wentworth E T Systematic Diagnosis in Back ache J Bone & Joint Surg 1926 viii 137

Wentworth discusses static backs osteo arthritic backs and the differential diagnosis of four types of traumatic back—sacro iliae strain sacro liae luxation lumboscral strain and fractures and dis locations in the lumboscral region

Local pain or tenderness may be due to local traumatism or the irritation or injury of the nerves In the diagnosis it is necessary to determine the nature and degree of the stress which causes pain When the patient complains of weakness the range of motion should be determined by direct and in direct examination. The patients economic and social background must also be considered and the possibility of exaggeration of the complaints or malingering must be borne in mind.

Low back pain is caused by fractures and dilocations and by osteo arthritis due to infection or a metabolic disturbance. Hypertrophic conditions cause local pain on motion and stress and radiating pain resulting from the irritation of certain nerve trunks.

Sacro line strain is the result of muscle fatigue causing loss of support of the bony parts by the muscles or is produced by sudden over-exertion of nuscles. The loss of muscle support may be due to long standing stooping or lying in a fixed position. Sudden or prolonged strain may cause various degrees of rupture of the lyaments.

A diagnosis of sacro iliac subluxation may be made when there is demonstrable mobility of the joints with relief of the symptoms by a change of position A phy sological relaxation of the joints occurs during men truation and pregnancy and a pathological relaxation during general debility and postural strain Gross displacements of the joints have been demon strated by the \ ray after severe trauma The diagnosis of secro lines sublivation is substantiated when the symptoms are relieved by manipulative reduction

Lumbosacral strain usually accompanies trau matic sacro iliac strain and may be due to lordosis

or a congenital bone anomaly

Spondy lolisthesis is the exaggeration of lumbo sacral strain and occurs following fructure or dis location of the fifth lumbar facets or in the presence of an anomaly of the fifth lumbar vertebra or

Static backache is the result of chronic atrain due to improper position of the feet legs, pelvis, or

20100

Strains are favored by congenital anomalies The degree of a strain is dependent upon the degree of imbalance between the bones and musculo ligamen

tous supports

Sacralization is a partial or complete fusion of the fifth lumbar vertebra and the sacrum or an articulation of the transverse process of the fifth lumbar vertebra with the ilium. Pain may be produced by pressure of a mu cle or ligament between the transverse process and the ilium irritation or inflamma tono of abnormal joints or burse strain of the sacroliac or lumbosacral joints due to leverage of the transverse processes on the ilium or sacrum or stretching of or pressure upon the nerves of the lumbosacral plexus

Sciatica is usually the result of irritation of the lumbar and sacral plexus by injury or discase in the lumbosacral or sucro iliac regions. It may be caused also by gluteal my ositis, chronic fibrositis, or gluteal

bursitis

Wentworth reports his findings in 750 cases of low back pain with special reference to the differential diagnosis

The diagnosis of static strain is difficult because with the exception of poor posture, the findings lack uniformity

With regard to the differential diagnosis be tween lumbosacral and sacro iliac lesions. Went worth states that there is a history of severe trauma only in the sacro iliac cases. In cases of lumbosacral issues there is an occupational factor. The pain in sacro iliac cases is sacro iliac pain while that in lumbosacral cases is lumbosacral and lumbo iliac pain.

Lumbosacral cases present more marked \(\) ray findings than sacro iliac cases \(\) In the lumbosacral cases there is tenderness over the lumbosacral fumbo iliac, and sacral regions and the spinous processes whereas in sacro iliac cases there is tenderness over the sacro iliac joint

In sacro hac conditions pain may be cheeted by pressure on the iliac crests when the straight leg is raised between 180 and 140 degrees while in lumbo sacral conditions it occurs when the straight leg is raised between 140 and 110 degrees.

RUDOLPH S REICH, M D

Chassard Acetabular Lesions in Osteochondritis of the Hip (Lesions acetabulaires dans l'osteochon drite de la hanche) Rev d'orthop, 1925, XXXII 517

The author reviews the literature on osteochon dritis of the hip and discusses the roentgenograms of twenty six cases Besides the usual findings such as shortening of the femoral neck, and a change in the angle between the neck and the shaft with more or less extensive rarefaction, he calls attention to the irregularity of the border of the acetabulum, in some cases there may be marked dents and spurs. In the vicinity of the acetabulum and especially in the area just above the roof of the fossa, the surface of the ilium shows decalcification. In s vol the cases studied the roof of the acetabulum was displaced upward while in eight there was a certain degree of subluxa tion of the joint. Ten cases showed a tendency of the upper border to assume an elliptical form. In six cases the angulation of the ischium ranged from 03 to 100 degrees, a change which accounted for separation of the fossa and the femoral head ANTHONY F SAVA, M D

PAIn of the Tenent Fascin

Yount, C & The Rôle of the Tensor Fasciæ
Femoris in Certain Deformities of the Lower
Extremities J Bone & Joint Surg 1920 vin 171

Hip flexion contracture is a very common sequela in untreated and improperly treated cases of anterior poliomyelitis in which the extent of the paralysis is such that walking is impossible but the patient is able to sit If this deformity were one of true hip flexion (i.e. due to contracture of the iliopsoas) ad duction or abduction of the thigh would not ma terially influence it but in the majority of the cases it completely disappears when the thigh is abducted and re appears when the thigh is adducted. On its re appearance the structures on the outer side of the leg become tense. The iliopsoas the sartorius, and the rotators of the thigh do not seem to affect In addition to the function of abducting the hip the tensor fasciæ femoris renders the fascia lata tense In the latter function it is assisted by the gluteus maximus which is inserted into it gluteus maximus therefore acts as a tensor of the fascia lata as well as an extensor of the thigh

When there is paralysis of the quadriceps extensor muscles knee flexion contracture is very frequently

associated with hip flexion contracture

knock knee another commonly associated condition is usually due to displacement of the tibus on the condyle of the femur caused by lack of bal ance between the retirenal and internal rotators of the knee In most of these cases however, it is found that the iliotibial band offers resistance to internal rotation with overaction of the biceps. The treatment indicated depends upon the degree of the deformity. Podkaral stretching without operation should be limited to cases of hip flexion without knee flection deformity or knock knee. In cases in which all three deformities are present to a mild degree simple subcutaneous division of the iliotibiil band at the knee followed by stretching and correction of

the flevion by wedging and by the use of a cast is advisable. The presence of all three deformities in adults and in children over 6 years of age requires complete division of the fascia lata as far as the biceps tendon and mesially to the middle of the anterior surface of the thigh

In marked knee flexion and knock knee the bi ceps should be lengthened by the open method. In two of the more severe cases reported by the author all of the ligamentous structures interfering with correction of the deformity were divided beginning

at the tubercle of the tibia

For cases of quadreeps paralysis in which the tensors of the fiscat lata are active the use of the latter as extensors of the knee by the method of Spitzy is suggested. The author has modified this procedure in that instead of stripping free a narrow portion of the fascat lata up to the muscular user ton of the tensor fascus femors he includes a broad fan shaped section of the fasca lata from the lateral and posterior surface. He has used the method in one case but the time that has elasped since the operation is not sufficient to warrant conclusions as to the end results.

In cases of active external and internal ham strings transplantation of the biceps with the ten sors would probably give the best results

RUDOLPH S REICH M D

SURGERY OF THE BONES JOINTS MUSCLES, TENDONS ETC

Galbraith J H The Prevention of Deformity

Allantic M J 1926 xxx 366
Davis A G The Treatment and Correction of
Spinal Deformity Allantic M J 1926 xxx 369
Willard DeF P The Correction of Deformities
of the Lower Extremities 1tlantic M J 1926

Yount C C The Treatment of Deformities of the Upper Extremity Atlantic M J 1926 xxix 375

GALBRATH reminds us that joints which are hable to become ank josed should be treated in the position that will be most useful to the patient in his occupation. As a rule, the shoulder joint should be treated with the humerus abducted and rotated externally the clow in about 90 degrees of flevion, and the wist in hypervetnession with the fingers flexed. The hip should be treated in abduction with slight flevion in the knee in slight flevion and the knee in slight flevion and the thanke with the foot at right angles to the leg. These positions can be maintained with braces or plaster casts.

To reduce the secondary deformity the factors causing it must be overcome by simple mechanical

methods

DAVIS states that he has much to indence in the treatment of attitudinal scoliosis by the Abbott method but believes that scoliosis due to infantle paralysis should be treated with jackets applied while the patient is suspended and by corrective breathing exercises

The deformity of Pott s disease can be prevented in most cases by arresting the destructive changes by systematic heliotherapy and phy sological rest of the part. Rest is given by recumbency in a plater shell or on a Bradford frame and by spinal fusion produced by the Hibbs or Albee method. The method to be used depends upon the requirements of the particular case and the surgeon's familiarity with the various procedures. For the average case Davis prefers preliminary spiniting correction and general anti tuberculosis therapy followed by the Hibbs fusion operation.

With regard to compression fractures of the verte bræ he states that the vertical diameter can be re stored almost to normal if sufficient hyperextension

is used

WILLARD calls attention to the fact that congenital club foot is primarily a deformity due to contract tures of the soft parts. Later deformatives of the bones occur As corrections seasy in the carily stages the treatment should be begun before the bones have become deformed. If over correction by manipula tion is found to be impossible a tenotomy must be done on all contracted parts. Braces may be necessary for months or years to prevent recurrence of the deformity. In the cases in which the bones have leading the properties of the tentage and the deformity and the case in order that the foot may be placed easily in a position of mild talipes equipon algues.

Deformities of the foot resulting from infantile paralysis are due to loss of muscle balance. Opera tive procedures for their correction should not be undertaken until after a period of four years devoted to attempts to restore muscle function and prevent.

deformity

The two operatus procedures of the greatest value are the transplantation of tendons of strong muscles to assume the function of the paraly and muscles and strong deformity. These operations give the best results when they are performed after the eight year of age. Arthrodesis should never be done before the seventh year and is best delayed until the tenth A stiff painless joint in good position has good weight bearing function. If there is deformity of the hap to an he corrected by arthroplasty or subtrochantetic.

Yount states that as the injury which results in obstetrical paralysis is seldom treated promptly after its occurrence the consequent deformity is worse than is warranted by the nerve damage

In the treatment the arm should be braced in the opposite direction 1e in abduction, and external rotation with supination of the forearm and extension of the fingers and wrist. After muscle tender ness has disappeared the entire arm should be mas saged. The splinting and missage should be continued for from three to say months.

In deltoid paralysis due to infantile paralysi arthrodesis of the shoulder gives considerable functional improvement if the intrinsic muscles of the scapula are in good condition

ELVEN I BERKREISER M D

Wittek, A Injuries of the Hands and Fingers (Hand und Finger, erletzungen) Nederl tijdschr v geneesk 1925 lxix, 94

The author, as head of an emergency hospital, has had ample opportunity to observe accident cases, especially those with poor results and to learn from such errors how to improve methods of treatment

First and second degree burns of the hands, the latter after opening of the vesicles, are best treated with silver foil. This treatment results in a cure

without scarring and causes little pain Injuries of laborers' hands from circular saws etc.,

hive an unfavorable prognosis If treatment is in stituted early, the best method is excision of the soiled deep wounds with primary suture

The success of nerve and tendon suture in the hand, especially on the flevor surface depends upon the early insertion of the sutures and the beginning of active movements after from ten to twelve days

Penetrating wounds of the joints, especially in the fingers, should be sutured as soon as possible. In the metacarpophalangeal joints, at least on the extensor surface, it is nearly always possible to suture after the removal of skin flaps but in the interphalangeal joints this is oute difficult.

Injured fingers should be bandaged in slight flexion over a roller bandage and possibly with the application of a small flexible metal splint on the dorsal

aspec

Hammer injuries often result in fractures of the proximal phalany with broken off fragments. These fractures must be set properly under anæsthesia

Complicated hand injuries should not be treated to conservatively as crippled finger stumps will later be more of a disadvantage than an advantage In partial amputation of the fingers the scer should be placed as far toward the dorsal aspect as possible and the insertion of the long flexor tendons and the base of the proximal planar should be preserved A case of this type should be treated in a hospital, even though the patient and physician may oppose it. The after treatment should be carried out with protracted hot water baths.

In cases of old hand and finger injuries it is often necessary to improve poor results and the conse quences of infection, as for instance, by the use of free fat transplants Because of the possibility of lighting up the infection, extra articular methods

should be used

In ankylosis of the wrist, dorsiflexion and better closure of the hand is obtained by chiseling out a wedge with its base directed dorsally. Even if the joint is movable, extensive scars remain in the extensors therefore flevor tendons are transplanted to the extensor aspect.

The very frequent faulty contraction makes at very difficult to overcome stiffness of the fingers. This can be corrected most quickly by Schede's lateral meason. The fingers should then be bandaged in shirth flexion.

Ankylosis of the fingers after laceration or after suppuration of the flevor tendons such as occurs in phlegmons is improved by transplantation of the tendon of the palmaris longus When this condition is present in several fingers the author resects the first interphalangeal joint and by causing bony ankylosis at the correct point gives the hand a better grasp When the thumb is lost, an attempt is made. in the cases of young persons to replace it with the toe or to build up a thumb from the skin of the breast and a piece of rib in the cases of older persons it is necessary to use a prosthesis. When several fingers are lost but the thumb is intact, the meta carpals are sacrificed in order that the remaining fingers may be approximated to the thumb more easily When all of the fingers and the thumb are lost the metacarpal interspaces are split and covered with skin (Burkard's "Mittelfinger")

SCHEUER (Z)

Howell, B W A New Operation for Opponens Paralysis of the Thumb Lancet 1926 ccx 131

To improve function in the thumb in which the normal opponens muscles are paralyzed, the author transposes the tendon of the flexor longus pollicis. This tendon is exposed through a palmer incision on the thumb to above the wist. The flap is well under mined to the radial border of the thenar eminence and a second incision about 2 in long is made on the dorsal surface of the thumb.

The tendon is then divided at the wrist and the distal portion passed subcutaneously around the ull nar border of the first phalanx and out through the dorsal incision. It is then passed back through the same incision subcutaneously in an oblique direction across the tendon of the extensor longus pollies of that it comes to be subcutaneously on the the

nar eminer

A subcutaneous tunnel is then made to the upper part of the original incision the tendon is drawn through and with the thumb in opposition the tendon ends are united with twenty day chromicized gut

After the operation the thumb is held in opposition by a cast. When healing has occurred, the patient is educated in the use of the thumb in opposition by faradic stimulation and massage.

The author states that he has had good results from this procedure in eight cases

FRANK G MURPHY M D

Smith Petersen, M. N. and Rogers, W. A. An End Result Study of Arthrodesis of the Sacro Iliac Joint for Arthritis—Traumatic and Non Traumatic J. Bone & Joint Surg. 1926 viii 118

In traumatic osteo arthritis of the sacro liac joint the roentgenogram shows increased density along the margin of the joint, irregularity of the joint line proliferative changes at the inferior margins, and disalignment of the pubes

Microscopic examination of the cartilage and bone removed reveals erosion of the cartilage and its replacement by fibrous tissue. In some cases the area of fibrosis shows localized areas of hemorrhage

In all of the twenty six cases reviewed by the authors the patient complained of local pain and tenderness on pressure in the region of the inferior sacro that I cament and sacrosciatic notch and of radiating pain along the distribution of the first and second sacral nerves se the posterior aspect of the thigh and the posterior and lateral aspects of the log In 12 per cent there was tilting of the nelvis. In all of the acute cases muscle spasm oc curred when the patient stood up and decreased or ceased entirely when sitting or recumbent position was assumed. Straight leg raising was positive in twenty four ca es Lateral compression wa present in 5 per cent The authors consider this sign valu able when it is present but state that it is often misleading and is not pathognomonic

Since the operation for this condution was first described it has undergone several important modifications. After the usual expo ure of the sacro haze region a window is removed from the illum with a motor driven saw. The joint cartilage is then cure ted out and after removal of the cartilage from the block of bone the latter is replaced and countersund, and the edges of the window are broken down.

Of the thenty six cases in which this operation was performed complete recovery resulted in twen ty two (846 per cent) and partial recovery in two (77 per cent). In the remaining two the treatment failed. Rudourd S. Rinch M.D.

Lavalle C Fifty Cases of Tuberculous Osteo Arthritis—White Swilling of the Knee and Coralgla—Which Were Cured by Bone Graft ing the Pritient Remaining in Bed Only Twenty Five Days (Cincuenta cases de esteoarths; tuber culosas—tumores blanco de la rodilla y cotalgas curado; con injertos, ésce na 23 días de cama)

Semana med 1925 xxxii 1209 Lavalle reports the chercal histories of thirteen of fifty cases of tuberculous osteo arthritis which were treated by his method of bore grafting. Thin bits of bone the size of toothpicks enveloped in periosteum are taken from the patient stibia the cutting being done with sharp scissors instead of a saw in order to keep the haversian canals open In tubercu lous osteo arthritis of the knee a tunnel is then made in the lower third of the diaphysis of the femur and the uppe third of the diaphysis of the tibia and into these tunnels the ends of the grafts are inserted the graft being pussed around the knee like a bridge and not penetrating the joint. After the graft has been introduced the periosteum which was pushed back from the tibia and femur when the tunnels were made is brought back over the graft so as to enclose it completely

Lavalle believes that the regeneration of bone takes place not from the periosteum but from the cottex and matrow the periosteum acting only as a retainer and guide to the newly formed bone

In coxalgia the grafts are passed around the head of the femur, one perforating the rim of the acetabu lum and the other the ncck of the femur and are untted by the trips of bone which run around the joint in the subculaneous cellular tissue. The con incise this was bed furnishes abundant nutrition and a copious blood supply for the graft. The free recruit ition evablished through the haversian canals of the graft drains away, the torus from the tuberculous focus and establishes conductions of nutrition which help the tissues in their struggle against the infection. The part of the graft within the bone brings about by 18 trophic action a condensing ostetus leading to ossification.

Within a few days after the operation improvement is noted in the patient's general condition, app tite and color the yellowish tunt of tuberculous cacheau disappears and the pain stops. After teneth whe days the patient can be out on bed with out any apparatus and should be allowed to go to school play and carry on the normal activates of a child's life. After six months the lateral grafts are removed as they have then served their purpose Illustrations of such removed grafts show that the fractures in them have healed and that the grafts have increase, I from the size of toothpicks to the thickness of a rib.

mechanes are a no more an enterior and oscopenosteal and in their transplantation the most careful aspen must be observed. The bed in the subcutaneous cellular the must be carefully prepared and all bed to the subcutaneous cellular than the must be carefully prepared and all observed the bed and seath to interfere with the penetration of the capitanes. The grift should be certified down to the spongy issues of the bones in which it is implanted. While the pottent is in bed the suck of portation should be surfability.

The grafts in all of the author's cases have lived They formed firm adhesions with the surrounding tissue and were abundantly nourished. A complete recovery resulted even in cases of open tuberculous o teo arthritis infected secondarily with other bac terra the fixtulæ closed and the lesions healed within a few months. Many of the cases were old ones with advanced irsions and sublivation. The perforation of the draphy so epiphy seril cartilage in the operation has never interfered with the growth of the bone the only cases of shortening being those in which the shortening had already taken place before the opera tion Cases of bacillary osteo-arthritis can be cured by this method in five or six months with the child leading an active life whereas with the use of the old methods of immobilization and heliotherapy four or five years were required to effect a cure. If the treat ment is given early complete mobility of the joint can be obtained AUDREY G MORGEN MD

FRACTURES AND DISLOCATIONS

Curtillet J and Tillier R The Indications for the Pedicide Bone Graft and Its Advantages (Les indication et les avantages de la greffe os euse à pédicule) Lon chir 1925 xm 789

The authors claim priority over Cuneo for the pedicled bone graft since in 1004 they described the method of making the large flap which constitutes the pedicle of such a graft. This thick flap of muscle and aponeuro is maintains the vitality of the graft by preserving its nutrient vessels. Its formation is analogous to the Indian method of making a pedicled skin graft which is in common use.

In general, a free bone transplant acts only as a guide to the new formation of bone. The graft itself dies and becomes absorbed. A bone graft has often been compared to a nerve graft, but the nerve fibers that penetrate the dead nerve graft are elements which function directly, while the blood vessels that penetrate the free bone graft do not play any direct part in the function of the bone. The bone graft acts only as a prosthesis and the vessels weaken rather than strengthen its prosthetic action. They bring about absorption and what is called haversian re habilitation and these cause the fragility of the graft which is so often responsible for secondary fractures.

It was formerly thought that one of the conditions for successful bone grafting was healing of the wound by first intention, but Ollier found that tissues may ossify better if they are irritated in the presence of bone. Therefore if a graft is eliminated slowly by an attenuated infection the functional result may be more satisfactory than that obtained by an aseptic operation since under these circum stances the callus formed is capable of being molded and there is no danger of a secondary fracture

The pedicled graft tends to bring about the desired result without the danger of infection. Even though it contains only a small amount of bone it causes ossification of the surrounding tissues. In stead of being transplanted it is displaced, together with its nutritive materials and therefore is living and not dead, bone

The graft need never be more than 4 or 5 mm thick, whatever its length. In some of the author's cases it was as long as 10 cm. Thin grafts of this type may increase to the size of the normal bone.

In one of the two principal methods of performing the operation the graft is taken from a neighboring bone. This is possible of course, only in the leg or the forearm. In the other method it is obtained from the bone in which the defect to be repaired is situated. Three clinical cases illustrating the different methods are reported.

AUDERS G MORGAN MD

Dollinger J The Operative Reduction of Old Traumatic Dislocations of the Shoulder Elbow, and Hip on the Basis of 207 Cases (Die operative Emrenkung der veralteten traumatischen Verren kungen der Schulter des Ellenbogens und der Huefte auf Grund von 207 selbstopenerten Faellen) Er gebn 4 Chru v Orthob 1925, vml 2018

This article reports upon 103 cases of old dislocations treated surgically and supplements a report on 104 similar cases made by Dollinger in 1911. The recent series included forty five dislocations of the shoulder forty six of the elbow, and twelve of the hip

SHOULDER DISLOCATIONS

The patients with shoulder dislocations ranged in age from 11 to 72 years Thrity three were men In twenty nine cases the dislocation was reduced by open operation, in ten a resection was necessary and nist the operative wound was closed without further procedure. In twenty seven cases it was necessary to deal with the intracoracid ligament, and in nine with the subcoracoid preglenoid ligament. Iso In two cases there was total softening of the head of the humerus which necessatiated resection, and in others there were more or less marked changes in the head of the humerus and in the socket. In twenty oncases the greater tuberosity was fractured and in two cases there was a fracture of the lesser tuberos its.

Not all of the injuries to the musculature were the immediate result of the dislocation since many of them could be attributed to unsuccessful attempts at reduction. Injuries to the musculature lead chiefly to interposition or contracture which impedes reduction.

The operation for reduction was performed under general anæsthesia in only eight cases. In the others induction anæsthesia according to the method of Kulenkampt was used the patient sitting upon the operating table while the assistant held his arm bent at right angles. The technique of the operation and the replacement in both typical and complicated cases is described in detail

DISLOCATIONS OF THE ELBOW

The ages of the patients with dislocation of the elbow ranged from 8 to 57 years. In thirty seven cases reduction was effected by open operation but in nine cases treection was necessary. In thirty seven cases the joint was dislocated backward, and in seven of these also toward the radial side. In one, the dislocation was toward the ulnar side and in one it was forward. In the cases of lateral dislocation the external epicondylar and either one or both of the lateral ligaments were torn off. A very frequent condition was swelling of the joint cartilage on the humerus and the formation of callius on the posterior surface of the arm and elsewhere. In fourteen cases the joint was analysised in extension. In a smaller number there was a moderate degree of mobility.

All of the operations were performed under in duction ansistesia. Whenever possible, the joint was turned inward so that the ulnar side of the forearm touched the inner side of the arm. All creatness and interposed tissue were removed and a smooth bone surface was prepared. The procedure for the reduction varied in different cases. It was often possible to prevent luxation during the operation by extreme flexion. In cases in which the dislocation was not particularly complicated good function was obtained.

DISLOCATIONS OF THE HIP

The patients with dislocation of the hip ranged in age from 11 to 48 years and all of them were males.

There were nine cases of lumbo line dislocation, one of obturnator dislocation and two of ischall dislocation. In nine cases reduction was effected by arthretony, but in three resection was necessary All of the operations were done under conduction anaesthesia according to the method of 1 keppler which was found to be entirely satisfactory. The incision was made from the posterior spine to the base of the trochanter and the gluttus maximus was separated. The joint socket was then exposed and cleared for the reduction care being taken to preserve the various announced structures. The technique of the operation and reduction which viried for the different types of dislocation is described in detail

No statement is made regarding the end re ults in these cases because on account of the war and its after effects no follow up of the patients was possible. The author therefore refers to the conclusions drawn by him in his first teport stating that the results were probably jut as good as those in the first stries of cases.

Desgouttes D and Ricard A The Treatment of Fractures of the Upper End of the Tibin (A propos du traitement des fractures de l'extrémité

superieure du tibia) J de chir 1925 vvvi 48t. Recently the operative treatment of fractures of the upper end of the tibia has won considerable fax or In fact some surgeons believe that it is the only treatment that will give proper apposition of the

fragments and the Lest functional results.

The authors are not in fivor of routine open operation con idering as most important arguments against if the difficulty of fixing the fragments which are usually multiple and the fact that the spongy bone in the part of the tibra does not lend itself.

well to the use of bone pegs or screws. They admit however, that open operation has the advantage of permitting early mobilization and more exact or rection of the condylar deformits. Condular deformity, uncorrected will alter the normal support of the femur this is true especially when the relations of the internal condule of the tibus and a tons of the internal condule of the tibus are distinct.

Desgouttes and Ricard report in detail three cases and cite two cases of condylar fracture which were treated one revatively comparing the Yan Jindings with the final functional casalts. Such a study shows that displacement of the internal condyle Has a much less lavo able prognosis than a similar displacement of the external condyle. The reason for this is that the axis of weight bearing pass esthrough the internal rither than the external condyle.

The authors believe that conservative treatment combined with the usual auxiliary measures such as active and pas ive motion and massage will give results as good as those claimed for the open operation. ANTIONY F SAVA M.D.

Conn H R Fractures of the Os Calcis Diagnosis and Treatment Radiology 1026 vi 228

The indications for the treatment of fracture of the os calcis are entirely dependent upon the custing deformity and for the demonstration of the de tormity the roentgenologist is (thefty responsible The toentgenograms should always show the anteroposterior and lateral years)

Arthrodesis overcomes the symptoms arising from the persistent arthritis and relieves the perional space. Since this is without appreciable risk. Coun advocates it for cases of non union of the os calcis

non union of the os calcis

S D Woldersberg M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

MacDougall J G Arteriotomy for Embolus Obstructing the Circulation in an Extremity Illustrated by a Successful Case Canadian M Ass J 10 6, xv. 265

In embolism of the main arteries, arteriotomy to remove the embolism is sound in principle and reason ably safe in practice if it is done early. In the cases reported and collected by key, a successful result was obtained only when the operation was performed in the first twenty four hours after the onset of the

condition

MacDougall reports a case of embolism of the left renal artery followed four days later by embolism of the common femoral artery Arteriotomy of the common femoral artery was done under local anax thesia with almost instantaneous improvement in the affected leg. When the patient left the hospital two weeks later he appeared normal and had normal use of the leg for eight months. At the end of that time he died suddenly of a herit attack.

J FRANK DOUGHTY, M D

BLOOD, TRANSFUSION

Herzog F The Action of the Roentgen Rays on the Regeneration of Blood (Ucber die Wirkung der Roentgenstrahlen auf die Blutregeneration) Strahlentherapie, 1725, viz. 759

To determine the action of the roentgen rays upon the regeneration of blood the author carried out experiments on seven guinea pigs from which large amounts of blood had been withdrawn. The animals were kept under observation for about three months

Effective direct irradiation of the bone marrow apparently always retarded erythropoiesis but under certain conditions (which are not stated) a brief generalized irradiation favored the regeneration of blood. The latter effect is due probably, not to a direct, but to an indirect, action of the rays on the bone marrow perhaps through the agency of chemical substances formed by the rays. The author concludes that a generalized irradiation may prove beneficial in severe alazimas.

The change in the leucocyte picture which occurs after such a weak irradiation is described, but noth ing new is brought out

Bock (G)

Perry, M C The Preservation of Blood for Trans fusion Wisconsin M J 1926 xxv 123

The author states that it is possible to preserve living human red blood cells for several weeks in a solution of lithium citrate and devtrose. The blood for preservation is collected in a paraffin lined Kimp ton tube. The passage from the vein to the receiving

vessel should be of large diameter, as short as convenient, and absolutely clean. The preserving fluid consists in a 18 per cent lithium citrate solution and a 10 per cent detriose solution made with freshly distilled water, autoclaved separately, and mived just before use. Phree volumes of dextrose solution four volumes of blood, and five volumes of lithium citrate solution are used. Thus, for 500 c cm of blood, 375 c cm of dextrose and 625 c cm of lithium are required. The final concentration of the dextrose blood citrate mixture is 2 5 per cent dextrose and 0.75 per cent lithium citrate.

The blood is mixed immediately with the fluid and stored in an icebox. The red cells settle at the bottom of the containing vessel in from twenty four to thirty six hours. The supernatant fluid is slightly opaque and ranges in color from yellow to a greenish yellow. A pink tinge to the supernatant fluid in dicates harmolysis caused probably by infection, therefore when this is noted the blood must be discorded.

When preserved blood is to be used, the superna tant fluid is removed through a tube by gentle suction as completely as possible Sufficient 5 per cent dex tross solution is then added to restore the red cells to their original volume. The cell dextross suspension is gently agitated with a rotary motion and poured through two layers of sterile gauze, which removes small clumps formed during sedimentation. The cell suspension is then warmed to body temperature and given by any convenient method.

The transfusion of preserved blood offers a means of meeting the requirements of emergencies associated with shock and hæmorrhage, the supplies being instantly available. In chronic maladies, however, preserved blood is of less value than whole blood.

SAMUEL KAHN, M D

LYMPH VESSELS AND GLANDS

Costain, W A Lymphatic Drainage N 1 ork State W J 1926 xxv1, 225

The operation of draining the thoracic duct in the neck is a new surgical procedure designed to over come the septic absorption associated with diffuse peritorities. Since this absorption occurs through the lymphatics into the thoracic duct, it was believed that the ligation and opening of the latter structure in the left side of the neck would prevent the septic products from entering the blood stream. These products are assumed to be the cause of the obstipation distention, vomiting and cyanosis generally regarded as complications of peritorities. They are contained in the lymph which is constantly being poured into the blood in quantities estimated at 2 quantities and 2 in peritorities, this fluid comes from the

septic sources the peritoneal cavity and the infected tissue spaces through the lymphatics proper and the lumen of the bowel through the lacteals

Immen of the bowel through the lacteals
In practically allof the cases in which the operation
described has been performed it has been followed
by marked improvement in the patient's condition
The sooner the duct was drained the better the re

Sults
The author describes the operative technique and cites a number of cases
SAMUEL KARN M D

Voorhoeve N Malignant Lymphogranulomatosis Acta radiol 1925 IV 567

After a critical review of the literature the author reports the results of the radiological treatment of mineteen far advanced cases of malignant lympho granuloma in which the diagnosis was confirmed by histological examination. He states that very much more favorable results can be obtained by this treat ment than is energally believed.

The principles by which a rational radiological therapy should be guided and the manner in which it should be applied are discussed. Attention is called to the importance of treating each local affection with sufficiently large doses and of treating recur rences as soon as they appear. Tissues remaining healed after the treatment must not be exposed to

any more tradiations than are absolutely necessary. The author discusses also the frequent occurrence of the affection in the mediastinal and abdominal glands the degree of leucopania caused by the treatment which may be quite marked without giving rise to any permanent damage the recognition of recutrences the influence of the irradiation on the temperature and is significance in the diagnosis the circumstances unfavorable for the prognosis and the contra indications to treatment

Autopsy material shows that histological examinations during life sometimes do not permit a diagnosis of malignant lymphogranuloma

SURGICAL TECHNIOUE

OPERATIVE SURGERY AND TECHNIQUE,

Hendon G A Venoclysis or Intravenous Nutri tion Texas State J M 1926 vm 662

Fluids and nutriment may be administered by venoclysis when they cannot be given by mouth proctoclysis, or subcutaneous injection. The author recommends a 7to -0 pet cent solution of dextrose in normal saline solution at the rate of sixty drops per grantle.

The solution must be completely sterile and must reach the circulation at a temperature between 100 and 110 degrees F Increased lachrymal secretion, ordema of the eyelids, and hypostatic pneumonia are evidences of supersaturation. An increase in the temperature chilis and headache may occur but

these are not contra indications to the treatment Six cases with varied indications for the intravenous injection of glucose solution are reported MEPLE R. Hooy M.D.

ANTISEPTIC SURGERY, TREATMENT OF

Destefano F, and Vaccarezza R F The Treat ment of Carbuncle in Man (Tratamiento del carbunclo humano) Semana méd 19 6 xxxii 165

From the treatment of 414 cases of carbuncle the authors conclude that the injection of peptone gives better results than the use of anticationnel serum or normal or serum. In the 102 cases treated with peptone alone, the mortality, was 100 59 per cent while in eighty two cases treated with anticarbuncle serum alone it was 15 55 per cent and in seventeen cases treated with normal or serum alone it was 20 41 per cent 1 n 250 cases treated with peptone alone or combined with a serum, the mortality was 12 55 per cent, while in 141 cases treated with anticar buncle serum alone or combined it was 19 14 per cent and in thirty three cases treated with normal ox serum alone or combined it was 12 121 per cent Twenty six cases of cutaneous carbuncle with septicemma were curred by injections of peptone

These results indicate that the treatment of choice for carbuncle in man is the intramuscular injection of peptone. Not only is this more effective than the use of specific or normal serum, but it does not cause serum sickness. Address & Morgan M D.

D Herelle F An Attempt to Treat Bubonic Plague with the Bacteriophage (Essai de traite ment de la peste bubonique par le bactériophage) Presse méd Par 1925 veun 1393

The author reports four cases of hubome plague treated by the bacteriophage alone, the first cases he has had the opportunity to treat under proper conditions. In every instance the clinical diagnosis was controlled by direct extimation of material obtained from the buboes by inoculation of guinea pigs, and by cultures. The case reports are supplemented by the timperature charts.

The bacteriophage employed was an especially active one obtained from the excreta of rats during an endemic in Indo China. Injections were made

directly into the buboes

The first case which was seen on the third day presented all of the symptoms of the disease. The temperature reached rof's degrees F and there was marked prostration. In the afternoon an injection of a c cm of the bacteriophage was made into the but boes and by the following morning the patients condition was completely changed. By the end of three days the temperature had fallen to approximately normal. With the improvement in the general condition, the pain and tension in the bubbes practically ceased. When the bubbes were increaded during convalencement their contents were found to be entirely sterile and an active bacteriophage was isolated.

The histories of the second and third cases were almost identical with the history of the first case. The time required for recovery was respectively three days and twenty four hour. The bacterial

findings were the same

The third case was seen on the second day of the disease. The temperature was then 104 5 degrees F, and the pulse 120. One cubic centimeter of the bacteriophage was injected immediately. On the following day slight improvement was noted but the heart showed the effects of a profound towamia. A second injection of 15 c cm was followed by a rapid fall in the temperature accompanied by cor responding improvement in the patient's general condition.

On the eighth day involvement of the opposite inguinal glands was noted. This had progressed with out any change in the temperature. Cultures from the bubo were negative, but inoculations into a guing pictured death at the end of ten days and a bacillus pessis which was resistant to the bacterio phage was solated from the animal s spleen.

In all of these cases the bacteriophage has a marked antitoue effect in addition to its bacterioidal action. The same phenomena have been noted in the treatment of dysentery. The author concludes that the treatment is specific and as it does not produce a reaction it should be employed as early as possible without waiting for a certain diagnosis. Because of the unformity of the bacillus pestis, a stock bacteriophage may be used.

ALBERT F DE GROAT M D

ANÆSTHESIA

Boros J Cystic Purulent Cerebrospinal Meningi tis Following Lumbar Anæsthesia Induced with Novocain (Cystische eitrige Meningitis cere brospinalis nach Lumbalanaesthesie mit Novocain) Therapia 1925 11 118

In the period from April 17, 1906 to November 15 1024 1 439 operations were performed under local anaesthesia in the author's clinic. In fifty five cases the anæsthesia was induced with a cgm of stoyaine In four (7 3 per cent) of this group it was unsatisfactory in nine (16 13 per cent) bulbar symp toms appeared in the course of the operation in one

Tropococain was used in twenty eight cases and 5

the patient collapsed and in one the operation was followed by headache

per cent novocain (2 5 c cm) in 1 356 operations In sixty one (4 49 per cent) of the cases in this group the anæsthesia was unsatisfactory in o 81 per cent bulbar symptoms appeared during the operation in 203 cases (25 20 per cent) the operation was followed by headache in one case paralysis of the ocular mus cles occurred and in one case meningitis developed This report is based upon the last case mentioned that of a 25 year old man who entered the hospital with an incarcerated inguinal hernia on the right side Lumbar anæsthesia was induced satisfactorily Twelve hours after the operation the patient de veloped a very severe headache became restless and lost consciousness. After two hours all of the cardinal symptoms of inflammation of the meninges were noted Forty per cent urotropin was given intravenously Lumbar puncture disclosed a sterile turbid fluid under high pressure. Ten cubic centi meters of trypaflavin was given intravenously and the intravenous injection of urotropin was repeated The symptoms gradually regressed and by the sixth day had ceased entirely The novocain used was

tested and found to be without fault Pautrier had a case in which similar symptoms followed the use of stovaine Besides these two cases only two others of meningitis following lumbar anæsthesia have been reported in the literature. The favorable outcome in the author's case is ascribed not to the medicaments administered but to the decompressive lumbar nuncture

VON LOBUSYER (7)

Babcock W W Demonstration of Spinal Ange thesia Surg Clin N Am 1926 vi 1

In the Samaritan Hospital Philadelphia spinal anæsthesia has been used in more than 20 000 Babcock believes that when it is properly induced it is far safer than nitrous oxide oxygen or ether anæsthesia. He has used it for 90 per cent of his more serious operations below the diaphragm In acute abdominal infections it is unsurpassed With no other method can an equal degree of an æsthesia be produced with as little effect upon the parenchymatous organs in the cases of patients suf fering from diabetes nephritis cholæmia or an acute or chronic respiratory disease

The physiology of rachiangesthesia is that of tran sient root interruption chiefly the posterior roots with consequent analgesia and loss of tactile muscle and temperature sense This block is essential to tender operation painless. The anterior root block is essential to complete muscular relaxation but as it also leads to a slowing and weakening of the heart action with a fall in the blood pressure it may be hazardous

If the anæsthesia involves only the lower lum bar and sacral roots no effect on the blood pressure will result but if the fibers supplying the great splanchnic vessels and those of the upper part of the body are involved, there will be a marked fall in the pressure usually lasting for from fifteen to thirty minutes This fall may be combatted by introducing fluid especially serum or gum acacia solution into the vessels Adrenalin is also effective. For safety the blood pressure is watched throughout each opera tion under spinal angesthesia the intravenous in fusion apparatus is kept at hand and the technique has been so perfected that the injection can be given in five minutes GEORGE R MCAULIFF M D

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Sicard J A, and Forestier J The Present Status of Roentgenological Examination with Liptodol (Estado actual de la exploración radiológica por el acette todado—liptodol) Rev méd d Barcelona 1025 11, 572

Lipiodol as a contrast medium for roentgen diagnosis was first suggested by the authors in October, 1921. As the result of its use considerable progress has been made in roentgen diagnosis, particularly with regard to the substanchnoid space the lungs, the pleure, and cold abscesses. The method is absolutely harmless. In more than 5,000 cases in which the authors have made lipiodol injections there were no deaths, and the only serious accident occurred when the injection was made into the cerebral ventricles. Moreover, the authors have found no reports of serious sequelæ in the literature. Lipiodol is indicated for an area in which the ordinary methods of roentgenography are insufficient or dimerous

In experiments on anumals lipsodol has been in pected intravenously for the study of the circulation in the capillaires. It has been found of value also for the study of fit embolism. In man it has been employed for the study of the cavities in the long bones under local anæsthesia an opening was made in the bone with a trephine. In this way it was possible to study the evolution of Paget's disease of Recklinghausen's

osteitis fibrosa

By having the patient swallow gelatin capsules containing it c cm of lipidod, the secretory activity of the stomach may be studied. The rupture of the capsule when its membrane has been digested can be easily seen on the screen. In normal subjects the capsule ruptures at the end of fifteen minutes, while in persons with hyperchlorhydria the time before its rupture may be decreased to from five to eight minutes and in those with hypochlorhydria or cancer it may be increased to from fifty to sixty minutes.

Lipiodol may be used also in examinations of the lachrymal tract, the maxillary sinus, the urethra, the uterine cavity, the fallopian tubes, the ventricles of the brain, fistulæ bone abscesses, lung cavities

and the epidural and subarachnoid spaces

In thirty seven cases of intramedullary tumor in which the authors have operated, the lipsoid diagnosis was correct in every instance. Several months ago the authors mixed lipsoid with olive oil, obtaining a mixture which is lighter than the cerebrospinal faul and therefore ness in the vertebral canal. When in the case of a normal person 5 or 6 c cm of this mixture is injected by the lumbar route, it will rise to the cerebral ventricles in fifteen minutes without causing pain. When the canal is obstructed, it will stop below the obstruction. It may be used in con-

nection with ordinary lipiodol to demonstrate the location of multiple tumors

The article contains fourteen lipiodol roentgeno grams of the lungs, sinuses, cerebral ventricles and vertebral canal

AUDREY G MORGAN, M D

MISCELLANEOUS

Kime J W Hellotherapy in Tuberculosis and a New Instrument for Its Use Med J & Rec 1926, CXIII 164

The author claims precedence over Finsen in the treatment of tuberculous conditions by sunlight his first article on the subject having been published in 1808.

Finsen found that concentrated sunlight hills bacteria fifteen times more rapidly than ordinary sunlight. The bactericidal action of sunlight is due to increased phagocytosis resulting from an inflammator reaction with increased exudation of serum and migration of leucocytes. Proyr states that sunlight penetrates the body to a depth of 10 in, that concentration favors its penetration and that pigmentation favors the absorption of the ultraviolet rays. In bone and joint tuberculosis treated with sunlight pain is rapidly alleviated the temperature gradually falls the appetite gradually ally returns, weight and strength rapidly increase, and the condition of the blood immroves.

As glass cuts out the ultravolet rays, highly polished metal reflectors are used to concentrate the smlight. The light is then passed through violet colored screens of celluloid which permit the passage of the ultravolet rays. The condenser is 5 ft in diameter and utilizes all of the shorter rays of sun light.

In pulmonary tuberculosis the patient is gradually accustomed to the condensed light and his bared chest then exposed to it for twenty minutes a day. This treatment is supplemented by exposure to the direct rays of the sun for three hours a day.

In glandular, joint, and surgical tuberculosis, the condensed violet rays are turned directly upon the parts affected Response to the treatment is prompt

LIEWELLY R LEWIS M D

Bengn and malignant growths of small or moder are size may be destroyed by heat of just sufficient intensity to desiccate the tissues. The heat is produced by a monopolar high frequency current of the Oudin type. The desired effect is produced in the tissues by delivering the current through a short air space. This treatment is of advantage when the

lesion is localized and when good cosmetic results are not only desirable but essential. It can be controlled so perfectly that a small growth on the cornea for example may be successfully treated without im pairment of vision by the subsequent formation of scar tissue and a small growth on the vocal cords may be destroyed without destroying the voice

Öther conditions successfully treated by the desic cation method are localized beings growths of the larynx bladder and rectum corneal ulcers ptery gum trachoma cervical erosion urethral caruncles moles papillomata angiomata nævus pigmentosus leucoplaka lupus vulgaris and lupus erythema tosus

consulation is produced by a bipolar high fremency current of the d'Ansonal type. This treat ment which is more penetrating and intense than the desication method is utilized to destroy larger growths and growths involving bone. As compared with the hear produced by high frequency currents that produced by the actual cautery is superficial in its action. The former is generated within the tissues by their resistance to the current while the latter is mercis transmitted by contact.

Whether desectation or coagulation is used the aim should be to destroy the growth at a single six ting. As a rule the devitalized tissue should be removed immediately by excision or curettage. If necessary the base of the tumor may then be given increasing the time that the time of the six of th

As an example of an operation by the coagulation method amoutation of the tongue is described When the condition is far advanced and associated with considerable emaciation it is Clark's practice to do a preliminary gastrostomy. After the jaws have been separated by a mouth gag a heavy silk suture is passed through the tongue from side to side and by means of this suture the tongue is drawn well forward The coagulation needle is then brought in contact with the anterior surface of the tongue as far back as necessary and a line of coagulation is made The tongue is then elevated and the frenum and the juncture of the tongue with the floor of the mouth are coagulated In the final step the tongue is ex cised through the coagulated area. After the opera tion the mouth is washed two or three times a day with a weak solution of sodium hypochlorite to de odorize it and to keep the slough free from maceration

In addition to desiccating or coagulating the affect of tissue and scaining the blood and I ymp channels the heat penetrates beyond the area totally destroyed and devializes malignant cells without permanently impairing the healthy tissues thus lessening the likelihood of local recurrences and conserving the maximum amount of normal tissue. Malignant cells especially those that are least differentiated and deviatalized by a lower degree of heat than normal deviatalized by a lower degree of heat than normal

The histopathological appearance of cells subpicted to descreation and congulation was observed to be entirely different from that of cells treated with radium and the roentgen rays Following desica tion the cells were shrunker and shriveled and their nuclei were condensed and elongated but the cell outline could be made out. The tissue had assumed a mummified appearance. The blood vessels were thrombosed. There was no evidence of hismorrhage

Following coagulation the cell outline was entirely lost and the affected tissue elements were fused into a structureless homogeneous mass suggesting hyalin lation

The cell reaction in the zone adjacent to the area treated was studied in guinea pigs and rabbits. Small areas of skin subcutaneous tissue and muscle were subjected to desiccation or coagulation and the animals then returned to their cages. Sections re moved several days later revealed practically the same tissue changes as those described but in addi-

tion round cell infiltration in the outlying zones

In certain areas this infiltration was localized about

the blood vessels The electrothermic methods depend for their results on the resistance of the tissues to the current which is manifested in the production of heat. In desiccation the current is of comparatively low am perage and the degree of heat is only moderate but of sufficient intensity to cause complete evaporation of the water content of the cells and to give the cell a mummified appearance Since the mode of cell death is associated with very little degenerative change and disintegration only a small amount of fibrous tissue is formed as a result of desiccation hence the good cosmetic results of this treatment Incidentally the neighboring healthy tissues are spared the devitalization caused by the formation of abundant contractile fibrous tissue

The coagulation method which requires a high amperage induces a more intense heat which not only dehydrates the tissues but causes coagulation of the cell protoplasm which results in a proportion ately greater amount of fibrous tissue.

LIEWELLYN R LEWIS M D

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Chloroma The Recent Literature Beangan, D and a Case Report Bull Johns Hopkins Hosp Balt , 1926, XXXVIII 180

The author reviews the literature on chloroma and brings the case reports up to 1025 He accepts the seventy four cases reported by Lehndorff in 1010 adds fifty five cases collected from the literature and reports one case of his own, this making a total of 120 positive cases of chloroma up to 1925

In practically all of the author's cases the condition was considered of my cloud origin. The diagnosis was based primarily on the blood picture and the histo logical structure of the tumor tissue and bone mar In all except a few cases of aleukæmia there was a definite, acute or chronic myelogenous

louk semia

Brannan's patient was a young man suffering from myelogenous leukæmia with gradually developing and characteristic hard, flat cranial tumors exoph thalmos with marked visual and fundus changes, facial paralysis impairment of hearing, and symp toms resembling those of mastoiditis and otitis media There was marked roentgenological evidence of in tracranial pressure and orbital and sinus growths The white blood counts were relatively low for leukæmia but rather typical of chloroleukæmia This case is reported in detail with the autopsy andings

The author believes that the green color charac teristic of chloroma is bound up with the myeloid

cells His conclusions are as follows

1 Chloroma or chloroleuk emia is a myelogenous process an unusual form of myelogenous leukæmia 2 Aleukæmic stages of chloroma are common whereas proved, true aleukæmic forms of the disease are very rare

3 Transitional or borderline and atypical cases emphasize the close relation between my clogenous leukæmia and chloroma or chloro leukæmia

SHIRLEY C LYONS M D

Cochrane R C Notes on the Treatment of Surgical Complications of Diabetes Mellitus Boston W & S J 19 6 exces 247

Diabetic surgery may be divided into that of election and that of necessity Since the war con siderable progress has been made in the treatment of diabetes. Insulin has proved of great value but there is danger of depending too much on insulin and neglecting sound surgery. Insulin aids in the preparation of the patient for elective surgery and is a safeguard against acidosis following the use of other

For all major operations on the lower extremity the author prefers spinal anasthesia. Morphine and scopolamine may be used with it

For operations on other parts of the body he em ploys nitrous oxide oxygen or ethylene and gives a preliminary hypodermic injection of morphine Novocam may be employed, but Cochrane does not use it in the feet for fear of causing gangrene. It may be employed in clean cases with a good blood supply

Sensis in diabetes is always an emergency because it lowers the tolerance for sugar. The possible bene fit of operation should never be denied a patient un less he is moribund. When the sentic condition has been relieved much may be accomplished. In the cases of sentic patients a blood culture should always be taken before an operation but the operation should not be delayed for the report

In the cases of very sick and infected diabetic natients operation should be done at once general condition may be improved by the subject toral infusion of saline solution, the administration of a soapsuds enema, and the administration of from 100 to 150 gm of carbohydrate in the form of an orange Insulin is not indicated at this stage, but can be used later by the physician

Carbuncle usually demands immediate operation In the author's cases Kanavel's crucial incision method is used. The wound is then packed loosely with hot horic acid compresses and covered with others which are changed frequently for twenty four hours The Carrel Dakin method is employed with Dakin's solution or dichloramine T In every case a good result has been obtained. Diabetics do not stand strong antiseptics

Abscesses must be promptly incised as diabetics seem especially susceptible to infection. Stones in the gall bladder or elsewhere may convert a mild case

of diabetes into a severe one

Lesions of the feet almost always occur during or after middle age The feet should be kept scripu lously clean and abrasions and blisters on the feet given careful treatment. In cases of infected or gan grenous feet conservation is often possible Localiz ed infection of the toes does not require amoutation Infected bone must be removed

Primary gangrene is always the result of arterio sclerosis In dry gangrene there is no need for haste but the patient should be kept under close observa tion by the surgeon, put to bed and given exercises to promote the circulation and burn up sugar

In the cases of extremely sick patients with a virulent infection and gangrene amputation of the lower extremity is best done in the mid thigh. In most other cases a leg amputation will suffice tourniquet is used MARCUS H HOBART M D

GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INFECTIONS

Pelouze P S and Viteri L E A New Medium for Gonococcus Culture J 1m M Ass 1926

1xxxv1 684 The new medium for gonococcus culture described by the authors gives just as many positive first cul tures as other media but the growth in the first cul tures is usually less luxuriant. In subcultures, how ever the growth is equal to that on other media. In all other respects except the luxurance of the first cultures the new medium is vastly superior to other media. It is made as follows

A calf s brain weighing approximately 500 gm is forced through wide meshed gauze into 500 c cm of distilled water and the fluid placed in the icebox for twenty four hours and then filtered several times through cotton of various degrees of compactness To the resultant fluid, which is turbed no matter how often it is filtered are added o s per cent of acid sodium phosphate and I per cent of peptone The fluid is then autoclaved at a pressure of 15 lbs for twenty minutes and then kept as stock

To complete the medium one part of the brain bouillon is added to three parts of standard 2 5 per cent agar medium made from yeal broth with the addition of o 5 per cent sodium chloride and 1 per cent of peptone It is then adjusted to a Ph of 7 8 which allows for a reduction of two points in autoclay ing 7 6 being the desired end point

The medium is then tubed autoclaved and slant After it solidifies the tubes are corked with sterile rubber corks to retain the water of condensa After the medium has been completed and cooled there may be some flocculation in the butta of the tubes. This can be easily overcome by placing the medium in bulk in the autoclave quickly bringing it to a pressure of 15 lbs and then after filtering and tubing it replacing it in the autoclave for completion of the sterilization. While this process improves the appearance of the medium it seems to cause some change in it which renders the cultures more scanty therefore the authors do not us at

The article is summarized as follows r Provided the medium is good gonococcus cul-

ture is as easy as other ordinary cultures Much of the literature on the culture of the

conococcus should be rewritten because findings due to faults in the medium have been interpreted as neculiarities of the germ

2 Our best media heretofore have been difficult to make have frequently became contaminated by the necessary handling could not be sterilized by heat and usually did not keep the germ alive for as long as a week The new medium described is as simple to make as ordinary agar. It can be auto claved after its completion it gives as many positive first cultures as other media it grows the germ in definitely in subcultures and it retains the vitality of the germ for at least one month CARL R STEINE M D

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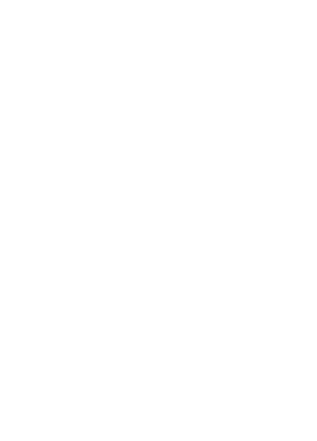
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EDITOR'S COMMENT

THE question of mahemant disease of the lachrymal gland and of the nose and para nasal sinuses presents a particularly interest ing problem both from the point of view of nathology and of treatment. The complex nature of such growths and the difficulty of assigning them to definite pathological groups have long been recognized Because of their accessibility it would seem that their presence should be recognized early in the course of the disease and that they would afford a neculiarly favorable opportunity for determining the efficacy of irradiation and other non surgical methods of treatment Four abstracts in the present issue of the International Abstract of Surgley two by Pfingst (p 87) and Strada and Zavalia (p 88) upon tumors of the lachrymal sac, and two by Quick (p 93) and klestadt and Martenstein (p 92) upon mulignant di ease of the nose and paranasal sinuses summarize some recent con tributions concerned with this problem Because of the failure of intensive irradiation to control the growth and because of occasional serious roentgen injuries. Klestadt and Martenstein recommend irradiation in fractional doses recommends particularly the use of buried radium emanation in gold tubes—a method which permits both the use of very small tubes and exclusion of the irritating beta rays. This application is supplemented by external doses of X ray or radium or both and later by cautery removal of the irradiated tumor tissue

Codman's resume of the work of the Registr. of Bone Sarcoma and his discussion of the symptoms and course of osteogenetic sarcoma (p 133) represent some of the helpful results of his carnet efforts to collect and study every reported case of bone sarcoma. The fact that he has been able to study 650 cases indicates not only the magmitude of the task, he has undertaken, but also future possibilities in the development of our knowledge of bone tumors. As Codman has pointed out so often and carnestly, the greatest hope for the successful attack of the problem of malignancy hes in the co operative efforts of the entire medical and surgical profession.

Flors paper upon obliteration of the ureter in synecological practice (p 129) touches upon an important problem in gynecological surgery. Gayet and Peycelon's warnings with reference to pyelonephritis as a postoperative complication of prostatectomy (p 131) emphasize a possible serious factor in a condition all ready difficult of

treatment

Codman's observations of the relation of the sympathetic nervous system to skeletal tonus (p 99) and Brechot's report of the results of laminectom in croses of 'idiopathic' incontinence of urine (p 98) concern neurological problems of interest and importance. Rolliers description of his method of treatment of Potts disease (p 135) indicates the results that may be attained with heliotherapy applied under suit able conditions.

INTERNATIONAL ABSTRACT OF SURGERY

AUGUST, 1926

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

EYE

Jackson E Recent Mechanical Injuries to the Eyes Their Examination and Management Northuest Med 1926 xxv 138

Jackson calls attention to the fact that the effects of contusions of the eyeball may be unrecognized in a superficial examination because external evidence of grave internal lesions may be absent, and that there may be no evidence of serious trouble at the first ophthalmic examination because such injuries as fracture of the orbit do not immediately affect the eyes. Contusions may cause cataract without rup ture of the capsule, but the opacity may not be noted for months. The examination following a contusion should therefore include inspection, palpation for changes in tension, and X ray examination for fractures and foreign bodies.

Perforating injuries may have few external signs upon which the diagnosis may be made. Small wounds close quickly, many parts do not bleed and the tension may be restored in a few hours. Two lacerations may occur from the same accident, as when a shot passes through one side and out the other. The nature of the missile and the direction from which it came should be determined. The presence or absence of a foreign body must be established definitely. Because of the long exposure made so frequently in roentgen ray examinations foreign bodies may not be detected by the X-ray if they are very small. As a rule all foreign bodies in the eyeball should be removed as soon as possible. The conditions under which a departure from this rule may be considered are very rare. Vigent, Wescort MD.

Durr S A The Operations for Glaucoma Am J Ophth 1926 3 s 1x 174

This report was a thesis submitted for the degree of M S in Ophthalmology at the University of Pennsylvania The better known operations for glenocoma are compared as to their value in different types of cases, and an attempt is made to determine

the best operation for each type of glaucoma. The conclusions are based upon a survey of the literature

Indectomy trephining indotasis and cyclo dulissis are fully covered while the Lagrange opera tion peripheral indotomy, indenclesis and cyclec tomy are discussed briefly. The use of adrinalin in glaucoma as compared to posterior sclerotomy is reviewed.

The conclusions drawn from fifty-eight original articles are as follows

- r No one operation can be used in all cases 2 In acute glaucoma the procedure of choice is indectomy with the use of adrenalin or a prehim nary posterior sclerotomy, if needed Trephining or indotasts is permissible 3. The Elhot trephine should be used in chronic
- 3 The Elliot trephine should be used in chronic non congestive glaucoma especially with contracted fields. Indotasis may be done. Cyclodially sis may be tried first, the trephine being reserved for resis tant cases.
- be tried first the trephine being reserved for resistant cases

 4 Indectomy should be performed in glaucoma due to swelling of the lens
- 5 Buphthalmos is best combated by trephining or repeated posterior sclerotomies
- 6 Cyclodialysis should be used in glaucoma due to disease of the retinal vessels and may be done in the cases of patients who have chronic conjunctivitis
- 7 Adrenalin has been found of value in ophthal moscopic examination, as a therapeutic agent and an aid in operation

Pfingst A O Neoplasms of the Lachry mai Gland with a Report of Three Cases Arch Ophth 1926 lv 139

Warthin was the first accurately to describe the pathogenesis of tumors of the lachrymal gland. The first case of such a tumor was reported by Hildanus in 1598. The first authentic case in which a micro scopic examination was made was reported by Becker in 1867.

Warthin's report covers all of the cases in the literature up to 1921, a total of 132 The neoplasms

in these cases are described by widely different terms ranging from simple hypertrophy to malignant growths of epithelial and fibrous nature. According to the diagnosis they repre ented forty four varieties of tumor. Warthin concluded however that he majority were mixed tumors of endothelial origin identical with the slowly growing mixed tumors of the salivary glands. In his opinion these negrowths are peculiar to the serous variety of gland structure which is found in the lachyrmal and partial glands. The proper term for them, he believes is endo thelioma.

Haslinger also accepted the theory of the endo theial origin of these tumors but Verhoeff in a re port of five cases stated that they arise from epi theial cells. Greeve who completed the obligation graphy after Warthin's report classifies them into two main groups. (1) mixed tumors and (2) tumors characterized by overgrowths of small round cells in the gland stroma a condition known as Mike disease. In the first, trough ty places the follow

ing types

Tumors in which the gland tubules have a scant amount of bitrous or my youndrous tissue some lymphoid tissue some flattened epithelium some prickle cells and often cartiage which are sur rounded by a rather dense capsule of white fibrous tissue and are usually slow in development. Surh tumors are not associated with enlargement of the glands and have never been known to lead to general metastass. They usually occur in adults. After removal they show no tendence to recur

2 Tumors made up almost entirely of myxo matous stroma containing some branch columns of

cells resembling epithelial cell

3 Tumors of the cylindroma type which micro scopically resemble adenocarcinomata never con tain cartilage and have little or no surrounding

capsule Clinically the eare the most malignant Mikulicz disease is apparently not a neoplastic

growth but merely an enlargement of the gland due to cell infiltration

The latest and most comprehensive contribution on this condition was made by Lane in 1922. In a very careful survey of the literature. Lane was able to find only 256 authentic case.

The author believes that the nomenclature of lachrymal gland tumors should be based solely on their nucroscopic make up and that the species of

the tumor should be determined by the nature of the prototype cell

The clinical course of tumors of the lachrymal gland varies considerably. The majority of such growths develop very slowly in the early stages a long period of inactivity preceding their active development, I is probable that the slowness of their

growth is due to the dense capsule

These tumors are seen u ually in persons past middle age. No doubt they begin earlier but because of their slow growth and their lack of symptoms they are unnoticed until they reach a considerable sue and cause exophthalmos. The average sue of those that have come to operation has been that of a pigeon segg but some were as large as a hen segg occasionally there are several mailler tumors ad acent to the large one. Most lachrymal gland tumors are nodular and firm. In a few cases a history of early pain has been given. Some patients complain of transitory diplopa and blurring of vision Ultimately vision may become quite defective as the result of astignation from the pressure of the tumor on the corner papillitus. hyperemia of the papilla or optic nerre atrophy.

A clinical division of the tumors into benign and malignant is impossible because they are practically

all potentially malignant

Larly and complete removal of the entire mass with retention of the cyeball is the indicated treat ment. The method of removal depends upon the size of the tumor. In a few cases in which it is large the Kroenlein operation is indicated. No case of recurrence after the Kroenlein operation has been reported. The removal of quite large tumors can be effected readily and with little or no deformity through an inci ion along the orbital edge.

L L McCoy M D

Strada F, and Zavalia A U Malignant Tumors of the Lachrymal Sac (Contribución al estudio de los tumores malignos del saco lagrimal) Semans mili 102, XXII 1100

A man of 57 years had noted increasing lach rymation of the left eye for several months. For several years he had had chrome masal catarrh max illary sinusitis on the left side and mucous polyper the nasal fosses. These had been cured by operation but recently the catarrh and nasal polype had recurred. Shortly before the beginning of the epiphora a hard round swelling appeared in the left lachrymal sea and gradually increased in size. Pain then began in the left lichrymal region and extended backward involving half of the head not increasing in sevently

Examination revealed in the lachrymal sace a fibrous tumor over which the skin was freely moable. The neoplasm extended backward and seemed to be incorporated with the internal wall of the orbit The lachrymal canal was permeable. The Wasser

mann test was negative

The tumor and lachry mal sac were removed under local anæsthesia. This was not difficult as there were no adhesions except for a short distance to the periosteum of the floor of the orbit. When the perios teum was dissected off, the bone appeared normal

Histological examination of the timor showed it to be a carcinoma. The patient was given one rocat gen treatment and then went to another town where he was given one irradiation with radium but refused to continue the treatment because of the intense pain which followed it He died of recurrence in the maxillary sinus and a metastasis in one kidney about a year later.

Only twenty five such tumors have been reported in the literature They frequently follow chronic dacry ocystitis There is a pretumoral stage of dacry o cystitis or epiphora a second period in which the tumor is visible and a third period of generalization and cachevia A differential diagnosis from dacryo cystitis is impossible in the first stage and the diag nosis is seldom made before the tumor appears. In the majority of the cases the condition has been fatal and in the few in which the operation seems to have resulted in a cure it is too early to determine whether the cure is permanent The author believes that roentgen and radium therapy may be effective. Al though his patient refused to continue the irradiation treatment, the tumor did not recur at its original AUDREY G MORGAN M D

Nutt A B The Result of Treatment by Artificial Light on Phlyctenular and Other Tuberculous Lesions of the Eve Brit J Obhth 10 6 x, 138

Tuberculosis and rickets have yielded to constant exposure to sunlight when other factors such as the vitamines have been supplied. In cases of phlyc tenules, which occur most frequently in persons with the strumous diathesis those with poor living con ditions and those with a faulty diet treatment with the ultraviolet rays has given good results when vitamines have been supplied in the form of cod liver oil and hypophosphites The exposure to the quartz lamp is at first ten minutes long and then gradually extended to an hour. In thirty cases which have been under observation for a year the which have been quantifying
results have been gratifying
Virgil Wescort M D

Adrogué, E Dendritic Degeneration of the Cornea (Sobre la degeneración en malla o en reja de la cór nea) Rev soc argent de oftalmol 10 5 1 33

Fuchs classifies dendritic degeneration of the cornea as a dystrophic process of the cornea due to dis turbance of nutrition. It is differentiated from in flammation by the fact that it has no objective signs of inflammation its course is progressive while inflammation, after an acute period subsides, there is no infiltration of leucocytes, and only degenera tive processes, such as fatty degeneration (arcus senilis), calcareous degeneration (ribbon shaped keratitis), or hyaline degeneration (Groenouw's keratitis) are found

Adrogue reports the case of a man 37 years of age who had had attacks of redness of the eye and photo phobia lasting from ten to fifteen days and occurring two or three times a year for a period of ten years His chief complaint, however, was a progressive decrease of vision Lateral examination with ordi nary illumination showed a diffuse opacity of the cornea The slit lamp revealed a network of white lines which were most abundant in the median zone between the edge of the cornea and its center The picture of this network was unusually clear

In all of the cases seen by the author there were recurrent attacks of keratitis characterized by photo phobia which was generally intense ciliary and con junctival injection the latter generally not very intense, pain in the ciliary region extending to the region supplied by the ophthalmic branch of the tri facial nerve, and frontal and hemicranial headache Instillation of fluorescin showed a loss of epithelium in the form characteristic of geographic herpes. These lesions and classical herpetic keratitis cannot be con fused with any other superficial lesion of the epi thelium of the cornea by one who has had experience with the slit lamp The lesion is bilateral

The author believes that dendritic keratitis and Groenous s keratitis are the same condition and that they both follow attacks of herpetic keratitis

Ampry G MORGAN M D

Roetth A On the Ouestion of Phaco Anaphylactic Endophthalmitis Arch Ophth 1926 lv, 193

Roetth says that to prove the occurrence of phaco an inhylactic endophthalmitis in human nathology the following questions must be answered Can animals be sensitized to lens protein by injection into the eye? Is the rupture of the capsule in sen sitized animals followed by local or general reactions? Can own lens protein of the animal injected into the eve or elsewhere cause hypersensitivity?

Krusius Roemer, and Gebb found that intra cardiac or intraperitoneal reinjections of small quantities of different proteins including lens pro tem after primary injections into the vitreous caused anaphylactic shock

The results of experiments to determine whether rupture of the capsule in sensitized animals is followed by a local or general reaction have been contra dictory Krusius found very slight anaphylactic re actions while Roemer and Gebb observed no general anaphylaxis De Waele sensitized rabbits to lens protein and performed a discission two, three five eight, or twelve days later. He found that the sooner the discission was performed after the injection the stronger the reaction Verhoeff and Le moine reported marked ocular reactions after dis cission in four of seven guinea pigs which were sen sitized with one subcutaneous injection of lens pro-

In experiments to determine whether own lens protein of the animal injected in the eye or elsewhere can cause hypersensitivity Uhlenhuth and Handel and later, Mita succeeded in provoking anaphy lactic shock in guinea pigs which were sensitized to their own lens protein Krusius observed slight ana phylactic symptoms in guinea pigs after the intro duction of lens fragments from guinea pigs into their anterior chambers or the performance of discission first on one eye and later on the other Roemer and Gebb were unable to obtain auto anaphylaxis in any Experiments have shown that hypersensi

tivity to own lens protein can be produced only by giving several injections of large doses of homologous

lens protein

A summary of the results of experiments on animals with homologous lens protein therefore shows that endophthalmitis phaco anaphylactica is not proved

In conclusion Ruskin emphasizes the importance of the role played by maxillary sinusitis in the production of nasal obstruction chronic larvingitis, and

MITHOEFER cites the fact that while it has been known for many years that nasal polypt are an ex tension of a primary disease in the antrum hyper plasta of the antrum without extension of polypi into the nose has not been recognized very often He describes a form of hyperplastic disease of the antrum in which there are few if any pathological changes in the nasal mucosa namely, primary by perplastic maxillary sinusitis

Hyperplastic maxillary sinusitis is of the following

four types

Antrum hyp rplasia with extension of polypi into the nose combined with suppuration

bronchitis in children

Antrum hyp rplasia with extension of numerous polypi or a solitary polyp into the nose but without a purulent discharge

Hyperplasia of the antrum without extension of polyoi into the nose and with or without mild patho logical changes in the nasal mucous membrane and the other sinuses (primary hyperplastic maxillary

sinusitis) Hyperplasm of the recess s of the antrum only

(recess hyperplasia) Following a discussion of the pathology and symp

- toms the author draws the following conclusions I Maxillary sinus hyp rplasia was always found when an extensive nasal polyposis was present
- 2 Hyperplasia of the antrum may be present many years without causing symptoms referable to

the antrum 3 The failure of the removal of pathological changes in the nose to give relief should direct at

tention to the antrum 4 Hyperplastic ethmoiditis of a mild type may be associated with gross hyperplastic changes in the

maxillary sinuses The roentgenogram will be found of aid in arriving at a conclusion as to the advisability of ex

ploring the antrum 6 An exploratory opening is often the only means

of determining the presence or absence of hyp r plastic changes within the cavity of the antrum

7 Hyp relastic changes in the antrum are pr s nt more often than has b en hitherto susp cted

8 If the possibility of antrum hyperplasia were always borne in mind and the cavity investigated before the performance of an intranasal sinus opera tion the results of intranasal sinus surgery would be more satisfactory A R HOLLENDER M D

Klestadt W and Martenstein II Combined Operative and Irradiation Treatment of Cancer of the Nose and Accessory Sinuses (Die kombi-nierte operative und radiologische Behandlung der Nasen Nebenhoehlenkrebse) Beitr z klin Chir 1025 CTTUN 626

The authors report upon fifty eight cases of malig nancy of the nose and accessory sinus a seen during a period of fifteen years. Most of the patients were between 50 and 60 years of age. In forty nine cases the neoplasm was a carcinoma and in nine a sarcoma More than half of the patients complained of coryga with nasal obstruction. In 36 2 p. r cent polyps were found Nasal polyps and internal nasal cancers both follow chronic irritation of the nasal mucosa The antrum of Highmore and the anterior portion of the ethmoid bone always contain pus

The treatment requires (1) radical removal of the growth (2) simultaneous radical op ration on all the diseased accessory sinuses (3) irradiation In ternal cancer occurs most frequently in the upper part of the nose Th refore the best incision for ex posure of the operative area is the Weber incision for resection of the maxilla which is carried unward along the supra orbital margin along the lines of the Killian incision The facial wall of the antrum of Highmore, the lateral wall of the nose with the aper ture the anterior wall of the sphenoidal sinus the orbital wall of the frontal sinus, and the mucosa of all the accessory sinuses are removed and the tumor masses curetted with a sharp curette. Of the hard palate which is ess it all for nutrition and spech no more is removed than is absolutely necessary. The dura and the structures of the pterygopalatine fossa are critical sites The suture of the wound is confined to the eyebrow the ala nası and the vestibule of the mouth in order to leave a portal of entry for the subsequent irradiation

Of the fifty eight cas s thirty eight were subjected to irradiation treatm at consisting of roentgen or radium irradiation alone and in combination. Sixty four op rations were done on these fifty eight pa tients with a total mortality of 78 p r cent dangers of the op ration anæsth sia hæmorrhage, and meningitis may be decreased by conduction anæsthesia of the second branch of the trigeminal nerve and the ethmoidal nerve injections around the blood vessels to secure anæmia, and good drain

age of the wound secretions

Four of the patients may be considered as cured after freedom from recurrence for five years One patient had a local recurrence after three and one half years and another after five and one half years The majority (53 5 per cent) showed a recurrence within the first year Metastases are not often ob served but when they occur they are found most frequently in the bones The advisability of remov ing the lymph nodes is difficult to decide because of the rarity of metastases and the fact that recurrences are usually local Since the glands serve as the recipi ents for the cancer cells mobilized during the opera tion it seems wise to operate on them only after a few days

With regard to irradiation treatment it is still un decided whether the administration of relatively small doses at intervals of several weeks over a long period of time or intensive irradiation is best. How ever the failures of intensive irradiation according to the method of Wintz and the occasional serious ro ntgen injuries resulting from this method justify

irradiation in fractional doses. The authors have obtained the best results with doses of one third to two thirds of the skin unit dose given with the use of a filter of 3 or 4 mm of aluminum. GRIESSMANY (Z)

Quick, D The Use of Radium and the \ Rays in the Treatment of Malignant Diseases of the Para nasal Sinuses Surg, Gynec & Obst 1926 vlii, 46

The proper application of radium and the X rays in the treatment of malignant diseases requires an accurate knowledge of the histological structure of the tumor, its size and shape its relation to adjacent structures, and the presence or absence of in

The peculiar anatomy of the paranasal sinuses which favors inflammatory processes is an important factor in the causation of malgnant growths in these structures. Inflammatory processes after the normal type of tumor growth and influence unfavorably the protective cellular reactions in the surrounding normal tissues.

Quck believes that the complex embryology of the parts under discussion affords an opportunity for tumors to originate from numerous developmental anomalies this explaining the wide range of tumor types found.

The most common malignant growth occurring in the sinuses is carcinoma of the maxillary antrum Squamous cell carcinomy usually represents a second ary invasion of the antrum, but may arise there primarily from lining membrane cells altered or flat tened by a previous inflammatory process

Certain basal cell tumors round cell carcinomata of atypical structure and sarcomata of various types also occur at different points in the paranasal sinuses As a rule, such involvement is only a part of a more generalized disease.

When the cases are seen by the surgeon, the condition is almost invariably far advanced, having been considered inflammatory too long Biopsy or earlier surgical exploration of the sinuses would result in the saving of many lives

Radium and the X rays have proved of value in the treatment of malignant tumors of the paranasal sinuses. In the experience of Quick, a combination of surgery and irridation with radium and the X rays gives the best results. The physical agents are depended upon to deal with the new growth directly and surgery is used to provide access and drain

Treatment with the \ rays alone is not sufficient to control the growth in the paranasal sinuses except, perhaps, in cases of such unstable tumors as lymphosarcomata The \ rays are employed for external radiation. For direct application to or into the growth radium is the agent of choice. The method depends upon the requirements of the particular case, but the irradiation must be applied accurately and uniformly throughout the tumor and in sufficient amount to produce a maximal reaction compatible with viability of the surrounding normal tissues.

For several years Quick and his associates have employed bare tubes of radium emanation very extensively. During the past year, they have found it possible to prepare gold emanation tubes scarcely larger than the bare tubes or glass emanation tubes. These have all the advantages of bare tubes minus the beta radiation. By means of them it is possible to bury filtered radium emanation obtain a prolonged intense jamma radiation and avoid the severe in flammatory reaction which always follows the use of the beta rays.

The technique of applying the tubes is described. The internal applications are almost always supplemented by external doses of the X rays or filtered radium or both.

With regard to the choice of method in removing, the irradiated tumor tissue, Quick states that the use of the scalpel and curette is bloody and necessitates too much manipulation of the tissues. The old fashioned cautery and soldering irons are clumsy and produce too must heat. Coagulation of the entire area by means of the high frequency cautery, and removal with a curette or the high frequency cutting needle gives the desired result with minimal trauma.

Metastatic cervical nodes secondary to the various types of carcinoma encountered in the paranasal situese are treated in the same manner as meta static nodes secondary to intra oral carcinoma that is by a combination of the \times rays, radium, and surgery

time all but twenty eight were too far advanced for any treatment except palliative measures. In seven of the twenty eight operable cases the eye was re moved and the antrum cleaned out from below. Of the total group of patients fifty six are known to be dead twenty two cannot be traced and are assumed to be dead seven were treated too recently for the results to be known and fifteen present no clinical evidence of any malignant disease processes after from nine months to eight years.

A R HOLLENDER, M D

MOUTH

Brockbank, E. M. Dental Sepsis and Septicæmia

Illness secondary to focal dental infection may arise from root obscesses, from absorption of the alveolar process of the jaws with pyorrhea, and from tartar. In general there are two types of affections caused by dental sepsis—appreval conditions, such as myositis, fibrositis, neuritis, arthritis, phlebitis anæmia and myasthænia cordis, and pyrexial affections such as acute throat inflammation, arthritis bronchopneumonia, and septicæmic conditions

The author believes that in cases of obscure de bilitating diseases an \times ray examination of the teeth should be made and all diseased teeth should be extracted George R McAuliff, M D Quick D The Treatment of Carcinoma of the

Epidermoid carcinoma of the tongue is one of the most difficult types of malignant disease to treat because of the muscularity of the tongue its rich blood and lymph supply and its mobility the age of the patient and the presence of mixed oral infec

tion
As surgery has not been particularly encouraging even when an almost p riect technique has been used radium and the \times rays have been employed in

the hope of improving the results

For the primary lesion the author recommends preliminary external radiation with the \(\bar{\chi}\) rays or radium packs to inhibit the growth of the lesion and prevent the implantation of tumor cell in normal

tissue

94

Strict regard should b paid to oral hygene Quick introduces into the lesion bare tubes 3 by 0 3 mm in size and containing i mc which give 132 mc hrs of radium energy in about a fortinght. To prevent the irritative and painful destructive effects of the beta radiation he now employs gold capillary tubes. The tubes produce a painful reaction for from four to eight weeks but their use is justified by the end results.

If the patient is unable to withstand the radical treatment described milder forms of radiation are combined with surgery. Only one cycle is given. If this proves insufficient the prognosis is decidedly unfavorable. If an extensive slough seems imminent the external carotid artery is ligated with the lingual

and facial arteries under local anæsthesia

Operative measures are advocated also for cancer

Operative measures are autoca

developing on syphilitic glossitis In the treatment of cervical lymph nodes the author prefers intensive preliminary radiation fol lowed by urgery. He subjects every case immediately to heavy external radiation over both sides of the neck preferably with radium or if this is economically impossible with the \ray If no evidence of invasion is noted a second radiation is given as soon as the skin will stand it. As the \ rays act especially on connective tissue and radium acts especially on capillary blood vessels the combina tion of the two produces a more uniform and general ized reaction than either alone When a node is firm but movable a radium pack is added a complete unilateral surgical dissection is done and bare tubes are burned especially where lymph channels have been severed. If the node is fixed surgical dissection is rarely done as the capsule has been perforated Under such circumstances it is wiser to use external radiation alone or to follow with surgical exposure and direct implantation of bare tubes

Of 414 patients treated by the author slightly over 20 per cent were rendered clinically free from the disease and a considerable number were releved even though their lives were not saved. In these cases which were unselected the percentage of clinical cures was approximately the same as that obtained by surgery in selected cases. Ouck regards

the \ rays and radium as valuable additions to surgery rather than as substitutes for it

CLORGE R MCALLIFF MD

NECK

Jura V Hæmorrhagic Cysts of the Neck (Ci ti ematica del collo) Poli lin Rome 1923 xxxii sez chir 591

Jura reports the case of a 20 year-old woman who thinteen days after her first deliver, about two years and a half ago noticed a swelling about the size of a walnut in the lower part of the left lateral cervical region near the supraclax icular fosss. This growth was soft and elastic and covered with normal skin It did not pulsate. It increased slowly and progress with in size but did not cause any pain or other symptoms. By the end of a year it had reached the size of a small egg. It was then punctured twice about a liter of dark blood being evacuated. Two months later the swelling had reguined its former months later the swelling had reguined its former

During the patient's second pregnancy the tumor did not change much in size but after deliver; agrew again and there was a pulling pain in the left shoulder on use of the arm. Under novocan ansistensia an incision was made parallel with the posterior border of the sternocleidomastoid. The cyst which lay between this muscle and the trapeaus was easily isolated and removed. It was not connected with the internal jugular. The transversalis collimater, which was attached to its posterior surface was sectioned.

Histological examination of the cyst wall showed that it had the structure of a vein wall which had been changed by endophlebits causing considerable

been changed of the intima. The cyst was evidently a hæmorrhagic cyst due to phlebectasia of the tranversalis colli. Jura suggests that the weakness of the verla appearing subsequent to the pregnancy may

have been congenital

Hæmorthagic eysts of the neck are generall, lo cated in the lateral cervical supraclavicular, caroud submaxillary or subby oid region between the me dian and deep cervical sponeuroses. They nevershow true expansive pulsation but if they are connected with an artery pulsation may be transmitted to them.

They are rarely cause pain. They are differentiated from solid tumors by their consistency from aneurism by their lack of pulsation from exercisis angioma by their lack of erectility and from soft tumors and other forms of cysts by the findings of

exploratory puncture

The treatment is radical removal of the cyst after ligation of the vessel on which it is implanted. In some cases it may be necessive to remove a section of the vein. Addressions may be present but often a plane of cleavage may be found. Methods of bringing about congulation by chemical agents are dan gerous as they may cause embolism.

AUDREY G MORGAN M D

Harburger, A. An Anatomical Clinical and Roent genological Study of the Normal and Abnor mal Hyoid Apparatus in Man (Etude anato mque clinique et radiologique de l'appareil hy orden normal et anormal chez l'homme). Arch internat de larrugol. 1925. VXI. 033. 1047.

The hyoid apparatus is formed by fusion of the scond and thurb branchal ruches and const is of a ligament stretched between two bone processes. In the newborn infant it is made up of a short styloid process still containing in its axis a remarkl of Reichet's cartilage, the stylohyoid ligament two or three times the length of the process which does not have any cartilaginous inclusion, and the lesser cornus of the hoof bone.

The abnormal form consists of a chain of two three or four bones connected by short ligaments or bony articulations. This form is more common than

is generally supposed

The piece on which the styloid muscles are in serted should be called the 'stylohyal segment whatever the length and mobility of the piece which articulates with the temporal bone. The insertion of the stylomaxillary ligament is less constant

The anomalous hyoid structure was formerly found chiefly in old subjects because it was discovered by chance at autopsy but clinical and roent genological examinations reveal it in young person. The long styloid process without a trace of articulation which is sometimes found in old persons is different from the hyoid apparatus with segments differentiated and articulated. The anomaly is unlateral in the majority of cases and when it is bulateral is rarely symmetrical. It is best explained by heteromorphosis alone or in combination with arrest of development.

As a rule the anomalous hyord apparatus remains clinically latent When it does become manife t the thief symptom is painful dysphagia. In the diag nosis palpation of the pharyny is indispensable and should always be practiced before any operation is performed on the tonsils Roentgen examination is also necessary as it is the only method of discovering the condition when it is latent. The picture should be taken in profile with the head extended and the ray centered on the angle of the jaw. One picture should be taken on the right side and another on the left The most frequent error in diagnosis is confusion of the condition with a cartilaginous nodule or a cal culus in the tonsil but in the latter case the hard tis sue is found within instead of outside the tonsil and is movible with and enucleated with, the tonsil

Resection of the styloid process always brings about recovery. In spite of the septic condition of the mouth and the great susceptibility of the per phary ageal tissue the natural route seems to be best for the operation. AUDREY GAIGNEN, M.D.

Arnelli, J. R. The Great Importance of the Thy rold in Relation to Certain Varieties of Heart Disease Colorado Med 1926 xxIII 111

Arneill emphasizes the importance of early diag nosis and treatment of thyroid disease to prevent

the serious cardiovascular complications resulting from abnormal thyroid activity. Livery examination should include a careful inspection and palpation of the neck and when possible, this should be supple mented by a fluoroscopic examination of the chest to determine the presence or absence of a substernal thyroid.

In this discussion the author deals chiefly with adenomata. He states that in a certain percentage of cases there is a definite association between colloid goiter 1 e simple goiter and the subsequent devel opment of adenomata of the thyroid. There are no innocent adenomata sooner or later such tumors become toxic, and if they are not properly treated surgically, scrious cardiovascular and nervous diseases result.

The importance of small adenomata of the thy roid as causes of serious cardiovascular disease is empha sized. These tumors are often so small that they escape the attention of the examiner while the cardiovascular symptoms are so overpowering that the treatment is directed toward a failing heart, the true cause being overlooked. In the treatment, operative interference is the method of choice. If the patient refuses operation or is an extremely poor risk, the X-rays or radium should be used.

ARTHUR L SHREFFLER M D

Caster R and Schteingart, M Cholesterlaemia and Calcerma in Thyroid Conditions Their Relation to the Basal Metabolism (I a colester inerus 2 la calcerma en los estados turadeos sus relacions con el metabolismo basal) Arch argent de cufirm d apar diges 19 5 1 2 1.

The authors report their study of the relation be tween thyroid function and the metabolism of cholesterin and calcium as shown by the content of cholesterin and calcium in the blood in cases in which a diagnosis of hypothyroidism or hyperthyroidism was made on the bisis of the bisil metabolism.

The findings of these investigations demonstrate that the internal secretion of the thyroid does not influence the cholesterin content of the blood in the slightest. The authors therefore conclude that the hypocholesterinæmia and hypercholesterinæmia ob s reed in putients with thyroid disturbances depend, not upon the thyroid condition but upon some other condition possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possibly the influence of the thyroid on the adrenial possible that the possible poss

As the calcium content of the blood also was found to be uninfluenced by the roid dysfunction, the authors conclude that the changes in the quantity of calcium in the blood in the roid disease may depend upon some factor related to the vagosimpa thetic system

John W Bernam M D

Simpson W M Three Cases of Thyroid Metas tasis to Bones With a Discussion as to the Ex istence of the So called 'Benign Metastasizing Goiter Surg Gince & Obst 19 6 du 480

I rom a study of case reports Simpson concludes that the observation of supposed metastases of nor

mal thy rodd tissue made by Cohnheim and by Morris have been widely quoted and have influenced many others to report similar cases. Cohnheims report of a case of simple colloid gotter with metastasis contains abundant evidence of primary carcinoma of the thyroid gland. In the case reported by Morris there was no histological or other examination of the thyroid gland.

In most of the collected cases the diagnosis of benign metastasizing goiter was based upon the clinically benign appearance of the goiter and the benign microscopic appearance of extinated metas

tases

Metastases of thy roid carcinomata vary greatly in their microscopic appearance and may assume the structure of normal thyroid tissue benign thyroid adenomata or simple colloid goiter. Such secondary growths may function in the same manner as normal thyroid tissue.

A microscopic examination of the thyroid gland was made in only twenty nine of seventy seven similar cases collected from the literature and in many of the reports areas of undoubted carcinoma were described. Autopsy was done in only 33 per

cent of the reported cases

The belief of some surgeons that these distant
metastases represent aberrant thyroid tissue has no

basis in fact

The metastases in cases of so called beingin metas tasking gotiers show the same striking predidection for bone that characterizes secondary growths of thyroid origin which show a frank carcinomatous structure. The vertebral bodies and the cranial bones are most frequently involved. Pathological fractures of the humerus and femur are common The osseous metastases frequently show fluctuations in size during menstruation and pregnancy. Pulsation is a common finding

Most of the thyroid metastases to bone were diag nosed clinically and roentgenographically as primary sarcomata. Metastatic new growth of thyroid prostate breast adrenal or renal origin should be considered in cases of skeletal new growth.

The reports of most cases of benign metastasiz ing gotter were published soon after the discovery of the metastases with a benign microscopic appear ance and before the outcome of the condition was known

Two cases from the University of Michigan hos putal showed osseous metastases of microscopically benign tissue associated with clinically negative gotters. One was reported soon after operation as an instance of metastasis of normal fetal thy noil tissue. Both patients subsequently showed clinical evidence of undoubted carcinoma of the thyroid gland and died after eighteen months and two years respectively.

Many cases are recorded in which the micro scopical examination of tissue from the metastasis revealed normal thyroid structure while histological study of tissue from the thyroid gland showed undoubted areas of carcinoma Abundant evidence indicates that there is no such entity as benign metastasizing goiter ' The use of the term should therefore be abandoned

TAMES C BRASWELL M D

Blum F Studies on the Parathyrold Glands Their Secretion Their Importance for the Organism and the Possibility of Substituting for Them (Studien ueber die Epithelkoerperchen in Sekret ihre Bedeutung fuer den Organismus die Moeglich ket ihres Ersatzes) 1025 [ean Fischer

This monograph is the report of a series of in vestigations made on several hundreds of animals

during a period of more than ten years

The parathyroid glands secrete a hormone in ternally which becomes activated into the complete hormone only outside the gland and then circulates in the blood plasma. The blood cells are free from hormones During lactation the parathyroid hormone passes into the milk.

Through their hormone the parathyroid glands exert a definite influence on a large number of organs acting as a protective mechanism against a con stantly threatening auto intoxication protective influence over the central nervous system is deficient tetany and occasionally hallucinations In the bone and tooth structures parathy roid deficiency is evidenced by retardation of growth and malformations in the blood by a marked de crease in the calcium content of the serum and in the external eye by inflammatory and trophic de generative disturbances When the Lidney is in sufficiently protected there is an increase in the resid The parathyroid hormone protects also the hæmatopoietic apparatus the thyroid gland and other organs

All of the organs so protected are injured when the integrity of the parathy rod glands is destroyed but if the body continues to be upplied by the hormone from a remnant of the parathyrod glands or by protective feeding (milk or blood) repletion occurs in the endangered organs according to their power to attract the protective bodies a power which depends upon their susceptibility to intoucation

In mature animals reserve substitution products are mobilized in the body when the parathyroid hormone is decreased but in immature animals this does not occur. In the young therefore any decrease in the function of the parathyroid glands causes marked weakening. During nursing the mother provides the supply of hormone for the child from the protective substances in her milk.

These findings provide a new point of view with regard to the nature and treatment of certain diseases STARL (Z)

Iglauer S The Treatment of Chronic Laryngo trachael Stenosis Ohio State M J 1926 XXII 218

Iglauer is of the opinion that stenosis of the larynx is usually secondary to ulcerative processes within the larynx. In adults paralysis of the recurrent laryngeal nerves and ankylosis of the arytenoid

cartilages are other causes. The nature and extent of the stenosed area can be determined by direct and

\ ray examination

As chronic cannula carriers are more comfortable if they wear a valvular speaking cannula Iglauer has made a cannula that opens on inspiration and closes on expiration Obstructive lesions should be removed and prolonged treatment with metal or rubber dia tors should be given The prognosis for ultimate functional recovery is favorable

TAMES C BRASWELL M D

Ferreri G Cancer of the Larynx in Woman (Le cancer du larynx chez la femme) Arch internat de laryngol, 1925 xxxxxxxxxx 807

Cancer of the larynx occurs about six times as often in men as in wome Formerly many brilliant results from operation were reported because an erroneous diagnosis of cancer was made in cases of syphilitie gummata, tuberculous vegetations, pachy derma of the larynx, and beingn new growths The difference in the incidence of cancer in the larynx in the two seves disproves the theories of contagiousness and heredity of malignant tumors. There is nothing but hypothesis to explain it. As the majority of lary ngeal cancers occur in syphilities the most probable theory is that syphilitie lessons in men are exposed to irritation by alcohol, smoke, misuse of the voice, dust, and irritating vapors more frequently than those in women.

The age incidence of laryngeal cancer is about the same in men and women. Forty five per cent of the subjects are between 50 and 60 years of age and 23 4 per cent between 40 and 50 years, but the condition has been found as early as the twenteth year.

The diagnosis should always be made by examina tion of a piece excised from the tumor since roentgen

treatment seems to have no effect on spinocellular cancer but is effective on the basal cell form. Most of the cancers of the lary nx observed in women are extrusic rather than intrinsic

In intrusic cancer, laryngofissure is the method of choice but if the epitheloma has passed beyond the vocal cord and affected the arytenoid cartiages or the crico arytenoid articulation or has crossed the anterior commissure and invaded the other side, total extirpation of the larynx is indicated. The author disapproves of hemilary ngectomy because it is associated with the danger of local recurrence and leaves the tissues in a condition of permanent irritation due to the presence of a fistula

In extrinse cancer the treatment of choice is radium irradiation preceded by tracheotomy to prevent suffocation. The radium should be applied directly to the lesion by the natural route if possible or through an operative fistula (hyoth rotomy). The author cites Sargnon's case of retro citico arytenoid spinocellular epithelioma in a woman of 72 years of age. Fifty milligrams of radium were applied in a rubber container for six hours and then, after tracheotomy, thy rotomy and section of the epiglottis were performed. The patient was alive two years after the operation.

He reports also three cases of his own One of his patients died of an inoperable cancer of the larynx and one recovered after total laryngectomy. The third recovered after tracheotomy followed by radi um treatment but has been treated too recently for the final results to be known.

Ferren regards roentgen treatment as more dan gerous than radium treatment because it breaks down the tissues The absorption of towns from dis integrated tissue is more harmful to women than to men Addrex G Morgay M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Harris W and Newcomb W D A Case of Pontine Glioma with Special Reference to the Laths of Gustatory Sensation Proc Roy Soc Med Lond 1976 xix Sect Neurol 1

The patient whose case is reported was a 14 year old boy whom Harris considered from the point of view of intellectual ability an excellent subject for careful gustatory examinations. At the time of his ulmission to the hospital be presented a typical pointine syndrome with paralisms of the body and extremities on the right side and of the face on the left side. The characteristic properties of the body and the characteristic properties of the characteristic properties and the properties of the motion was very extensive their being complete right hemi anasthesia. hypoglossal paralysis right fifth nerve anasthesia but no paritysis of the motor branch of this nerve and pirtual fifth nerve hyposthesia to light touch on the left side.

The patient died about two months after his ad mission to the hospital following a continuously

downward course

Lathologically examination made by Newcomb revealed a tumor growth extending in the left side from the pois to the red nucleus and down to the lower border of the olive with a slight extension across the midline

The authors were interested especially in the disturbance of taste which was complete both in the front and back of the tongue on the right side but on the left ade was apparent only on the front of the

In Harns opmon the gustatory disturbance is explained by Augotics shorely that the gustatory nucleus receive these from the fifth nerve and pars intermedia as well as the glossopharyngael and by the hypothese that the function of the fifth nerve in the phenomenon of taste is the maintenance of common sensition while the nerve of Wrisberg for tions in a more speake capacity the two to gether combining to produce the sensation of taste.

Fimme W The Glandular Treatment of Pituitary
Tumors and Hyperplasias thanto M J 1926
2XIX 427
(rant F C The Results in X Ray Treatment of

(rant F C The Results in X Ray Treatment of Early Pituitary Lesions Atlantic # J 1926

raix 430

Frazier C H The Surgical Management of Pitui
tary Lesions Atlantic M J 1026 xxix 435

TIMME distinguishes between simple hyperplasias of the pituitary and true pituitary neoplasms which he believes can be done by studying the history of the case. For the former he advises whole gland treatment given in combination with hypodermic injections of pituitrin other glandular extracts iodides, etc. depending upon the case

(RNT advocates the use of the Nravs and radum in cases of primary tumors of the pitutary gland in which surgical schar decompression is not indicated immediately to save vision and also as postoperative treatment in cases treated surgically. He cites seven cases with improvement of headriche they issual fields and the general health following such treatment

FRATER describes his technique for the transphenoidal approach to the pituitary and advises oper ative interference in cases in which a pituitary adenoma has reached a size sufficient to affect vision. He outlines a very careful pre operative and post operative routine. Let M. DAVIDOFF, M.D.

SPINAL CORD AND ITS COVERINGS

Bréchot Idiopathic Incontinence of Urine and Laminectomy (Incontinence essentielle durine et laminectomie) Bull et mêm Soc nat de chir 1925 li 896

Brechot has performed six laminectomies for idio pathic incontinence of urine and one for bilateral hollow foot. One of the patients with incontinence had also a hollow foot and a permanent flexion contracture of the great toe In none of the cases was there a family history of congenital malformation or nervous disease The patients were all of normal intelligence. The roentgen picture showed the lum bosacral region normal in only one case others there was a median fissure of the fifth lumbar or first sacral vertebra and in two cases the laming did not meet on the same level and were superim posed at the ends In another case the lamina were not as long as normal and the vertebral canal was therefore slightly smaller than normal These were cases of false spina bifida occulta

The technique of laminectomy was simple the operation consisting in a median incision dissection of the lumbosacral muscles and resection of the spinous processes and lamin of the first sacral or fifth lumbar vertebra or both. This is much simpler than the laminectomy recommended by Delbet for vidults which Brechot does not think should be practiced on young children.

The child with a hollow foot and contracture of the great toe was completely cured. He has not unnated in bed once since the operation. In so for is noural and the contracture of the toe. h.s. dt. appeared. The child with a double hollow foot was also greatly benefited. The others were benefited but none of them was curred completely.

A certain amount of caution is necessary in judg ing the indications for operation in these cases since in some of them recovery occurs spontaneously as the subject grows older, and up to the age of 10 to 12 vears the roentgen picture of spina binda occulta is

no absolutely reliable

In the discuss on of this report OMBREDANNE said that he did not regard the difference in the level of the laming as of much significance but believed that ch ef importance was to be ascribed to the fact that as the posterior vertebral arches were shorter than normal they did no form the usual curve but approached each other by the shortest route and were connected with each o her by a fibrous layer this re-ulting in a flattening of the spinal canal in 1 s anteroposterior diameter. He doubts the waldom of operating for incontinence or urine but has operated for pain incontinence of faces and club-foot with good re-ults

Brechot replied that Ombredarne was consider ing cases of more pronounced spina bifida occulta Brechot found the spinous processes normal in his cases and the fibrous thickening he dis covered was in the dural sac there was no fibrous membrane connecting the laminæ Brechot does no advocate routine operation for incontinence of urine but thinks that when the roentgen picture shows malforms ion of the neural arch or fisure laminec AUDREY G MORGES M D tomy is justifiable

SYMPATHETIC NERVES

Bonani G Late Results of Perufemoral Sympathectomy in the Treatment of Varicose Ulcer (Risultati Iontani della simpatectomia perifemorale nel trattamento dell'ulcera vanco-a) Chir d'or garidi morimer o 19 3 1x, 569

Bonani reports seven cases of penartenal sym pathectoms for vanco-e ulcer in all of which the lesion had persisted for from seven to twenty years and had resisted the usual treatments. The Wasser mann reaction was negative. In every instance roentgenograms of the leg showed the bone lesions which have been described as characteristic of severe

The operative technique vas that recommended by Lenche The artery wa, exposed in the middle third of the thigh beginning at the apex of Scarpa s triangle where the collaterals are ten. The technique is difficult and in old patients with atheroma of the artenes and penartentis great care is necessary Con siderable time is required to ligate the small col lateral. After the exposure of the arters it is not dif ficult to strip the adventitia for a distance of from 10 to 12 cm

In all of the author s cases healing occurred by first intention. In no instance was there any secon dare hamorrhage The immediate results were vergood. Complete cicatrization of the ulcers occurred in four cases and partial cicatrization in two In one case the treatment had no effect

Re-examination of the patients a year and a half after the operation showed that the complete cica trization which occurred in four cases was perma

nent in only one in the others the ulcers recurred after fifteen days, three month, and five months respectively. The result was temporary also in both of the ca es of partial cicatrization these findings and the relative difficulty and danger of the operation Bonani concludes that the indica tions for penfemoral sympathectomy for varico-e Licer are very limited AUDREY G MORGAN M D

Coman F D Observations on the Relation of the Sympathetic Nervous System to Skeletal Muscle Tonus Ball Johns Hopt as Hosp Balt. 1926 XXXVIII 163

In summarizing the literature on the relation of the sympathetic nervous system to skeletal mu_cle tonus Coman states that stimulation of the sym pathetic fibers to skeletal muscle has vielded only equivocal and unconfirmed results. Most observers and that elimination of the sympathetic fibers with preservation of the cerebro-pinal innervation of skeletal muscle has no effect on the muscle tonus and there is general agreement that definitive loss of tone tollows interterence with the cerebrospinal re-Lex ..rc

In the cat and dog the somatic nerve supply of the toreleg in relation to the thoracolumbar sympathetic outlow offers a unique anatomical basis for the elimination of one type of innervation without disturbance of the other. The first ramus communicans albus leaves the cord with the first thoracic root and the last of the thoracolumbur outflow leaves the cord with the third or fourth lumbar root. The secretory and vasomotor fibers for the forelimb leave from the tourth to minth spinal roots incluive (rarely from the third) the maximal effect being produced by stimulation of the seventh. Stimulation or section of white rame higher than the fourth thoracic caules only secretory or smooth muscle changes in the head (particularly in the eye) Hence the ventral roots of the entire brachial plexus including the first or second thoracic may be sectioned without interfering with the sympathetic innervation to the torelimb whereas ection of the third to the tenth thoracic roots eliminates the sympathetic innervation of the foreleg without disturb ng the comatic inner

From experiments on thirty nine cats and seven dogs Coman draws the following conclusions

1 Stimulation of the sympathetic innervation to the foreleg fails to cause any tonic reaction

2 Complete removal of the sympathetic to the foreleg does not influence the normal development of tone either before or after decerebration

3 Complete removal of the somatic motor supply

to the foreleg is followed by total abolition of tone both before and after decerebration Since none of the conditions essential for proof of

the sympathetic innervation of skeletal muscle could be observed the conclusion is drawn that there is no relation between the sympathetic nervous system and the development or maintenance of postural tone in the cross-striated muscle

The author states that his experimental results seem in accord with Sherrington s concent of skeletal muscle tonus as simply a postural reflex under cere prospinal control None of the findings indicates the necessity of a distinction of elements in tonus such as the contractile and plastic elements postulated by Lancelaan and there is no support to the theory of a dual innervation by sympathetic and so matic nerve elements WALTER C BURKET M D

Bransburg The Historythological Changes in the Heart Muscle Following Sympathectomy (Die pathologisch histologischen Veranderungen des Herz muskels nach Sympathektomie) Russkojo klin 1925 IV 221

The effect upon the heart of a sympathectomy which cuts off the entire innervating cardiac plexus has not been reported in the literature. The author attemp ed to solve the problem experimentally by experiments on twenty does and twelve rabbits Unilateral or bilateral sympathectomy was done and the heart muscle examined at periods ranging from one to one hundred and twenty days. The following conclusions are drawn

Umlateral and bilateral cervical sympathec tomy in rabbits and vagosympathectomy in dog produce the following changes in the first few days following the operation dilatation of the blood ves sels hyperæmia ædema intramuscular round cell infiltration and an initial stage of muscle striation followed by its di appearance. These changes indicate a disturbance of the circulation and muscle nutrition and parenchymatous deceneration

- 2 For a longer time-up to the fourth post operative month-the decenerative changes in the cardiac muscle become more pronounced. The grang lation the absence of cross striations and the loam tudinal fibrillation indicate profound nutritional dis turbances and degeneration of the muscle elements At this stage hyperamia and ædema are no longer present
- a After unilateral sympathectomy in the rabbut and varosympathectomy in the dog the degenera tive muscle changes in the heart are localised accord ing to the innervation. After operations on the left side the muscle changes occur in the neighborhood of the place nerving whereas after operations on the right side they occur in the region of the first second and third plexuses and after bilateral opera tions decenerative phenomena are observed ever-
- 4 Resection of the depressor nerve on the left side in tabbits and does causes insurancent changes in the wall of the aorta and in the muscle in the region of the first and second plexuses (areas sup plied by the branch of the depressor nerve) No muscle changes are observed in other parts of the
- 5 The results obtained from investigations fol lowing sympathectomy in animals indicate the trophic importance of the cardiac branch of the sympathetic the necessity of interpreting the indica tions for sympathictomy in man with greater care and the fact that resection of the depressor nerve has apparently the same therapeutic and operative effect as sympathectomy IRSAE (Z)

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Ginsburg S Pain in Cancer of the Breast Its Clinical Significance with Special Reference to Bone Metastases Am J W Sc 1926 clxxi

Pain is rare during the early stages of mammary cancer. Its presence is usually an indication that the carcinoma has undergone secondary degeneration with reactive inflammatory changes. Deep pain and radiating pain usually indicate extension of the disease. Skeletal metastases cause pain of wide spread distribution.

The incidence of skeletal invasion in sixty seven cases of breast cancer admitted to the Cancer Division of the Montehore Hospital, New York City was

74 6 per cent

In the early stages of skeletal metastasis the pain may be mild and inconstant with a tendency toward remission and periodicity which particularly in the ab ence of recurrent breast symptoms, may be deceptive to those unfamiliar with thus type of invasion

Recovery of function in cases of skeletal metastasis may be due to subsidence of the inflammatory reaction and is only temporary. The diagnosis is made by frequent physical and roentgen ray examination.

arion:

The author believes that in advanced cases of can cer of the breast, radiotherapy is more effective than other methods of treatment and suggests as a prophylactic measure, postoperative radiation not only of the breast but also of the skeletal regions which are most frequently invaded

WILLIAM E SHACKLETON M D

Richards G E \ Rays and Radium in the Man agement of Breast Carcinoma Canadian M Ass J 19 6 xv1, 358

There is a great deal of evidence to support the theory that the \times ray kills cancer cells directly. The cells of the basal cell epithelioma or lymphosarcoma are usually easily influenced. As the epithelial cell approaches the squamous type it becomes more resistant. A squamous cell epithelioma requires several times the dosage required by a basal cell timor. In tumors with the cylindrical lorm of cell the margin of safety between the dose necessary to destroy the cancer and that which will destroy the normal tissue is reduced almost to the vanishing point.

Recent experimental work indicates that some, if not most of the effects produced by the X ravs are due not to the direct destructive action of the ravs upon the cancer cells but to an indirect effect produced in the normal body cells. It appears that this is somewhat analogous to an immunity effect.

In experiments on mice erythema doses of rays were applied to one groin and cancer grafts then implanted in both the rayed and the unrayed groin A tumor resulted from five of six of the inoculations in the protected area but from only one of the six made in the irradiated area.

Heavy destructive doses of the rays produce fibrosis of the lung and destroy normal cells or lower their resistance. A minimum erythema stimulates

normal tissue to resist the cancer cell

The \ rays may be made to cover adequately a much larger area than the quantities of radium which are usually available to the average physician and should be used in the majority of cases for both efficiency and economy.

In all prophylactic treatment the limit of voltage used upon the chest wall or the lung should be 140 kv and over the avilla and supraclavicular areas,

210 kv

In practically all cases in which radium is employed postoperatively the author uses the X rays also. He finds that three quarters of a full dose of both radium and the X rays can be administered simultaneously

Radium is of value chiefly in the treatment of accessible nodules in which an intense effect is desired. In the pre operative treatment of single or multiple small nodules it may be used with the V rays in the form of surface applications or packs or buried plat inum needles of low potency and high filtration. In postoperative cases small skin nodules may be treated by surface applications plaques, packs, or platinum needles on wax moulds. Nodules in the arilla may be treated with needles or packs. For supraclavicular nodules the use of packs in conjunction with the V rays is indicated.

Howard A McKingir M D.

HOWARD IT MICKNIGHT MIL

TRACHEA, LUNGS, AND PLEURA

Forestier J Roentgenological Exploration of the Bronchial Tubes with Iodized Oil (Lipiodol) Radiology 19 6 vi 303

After having proved the harmlessness of lipiodol injected into the bronchial tubes of animals, the author in conjunction with Leroux, used it in clinical cases and succeeded in outlining the bronchial tree in roentgenograms to the smallest ramifications. A part of the oil is expectorated soon after its injection but most of it is absorbed gradually and climinated in the course of several weeks.

Lipiodol may be introduced into the bronch by transglottic injection with the aid of a long curved catheter by the subglottic method which requires puncture of the intercricity roid membrane or through the bronchoscope or lary ngoscope

Before its injection intratracheal anasthesia is in duced with novocan solution. From 20 to 40 c cm of the oil waimed to body temperature, is then allowed to gravitate into the part of the lung under investigation the patient being placed in such a position that the part to be studied to as low as possible. Papid exposures made in different positions of stereoscopically immediately differ the injection record the localization of the oil and any pathological changes present. No more than one or two lobes of the lung should be explored at one time. The indications for the method are the following

1 Cases in which a deviation stricture or other abnormality of the trachea is suspected

2 Cases with a long history of pulmonary dis turbance and chronic expectoration in which the diagnosis between phthisis and bronchectasis is

- 3 Cases in which the presence of a cavity in communication with the bronch is indicated by comica
 - 4 Cases of thorack fistule of unknown origin
- 5 Cases in which clinical laborators and ordinary \ ras examinations do not lead to a certain diagnosis

The method gives valuable information by our lining the traches and bronch showing obstructions from pressure due to intrathorius tumors and localizing excittes in communication with the bronchial tubes but its greatest value his in the diagnosis of bronchic tests. Whether this condition is of the cylindrical or accular viriets it is easily demonstrated.

After therapeutic pneumothorix exploration with hipodol may show whether an alherent part con tains lung or is merely membrane. It serves also to control the amount of lung ollapse.

In more than soo injections no severe accident has occurred. The method is contra indicated honever in the cases of febrik tuberculous patients and after hamophysis its use should be delaxed for several day. In cases of pulmonary agarene and anaerobic infection subglottic injection of todized oil is mady able.

Though the procedure has been employed mainly as a diagnostic and it has been followed occasionally by marked improvement in the chinical course of cases of bronchiectasis and lung cavities. In some instances, the profuse expectoration has been decreased for months. Moreh Hartin VID

Moller P F and Von Magnus R Investigations of Bronchial Affections by Means of Iodine Preparations Jodumbrin and Lipiodol 1cta

med Scand 1923 lam 174

The authors have injected soluted oil into the bronch in twenty three cases. Distinct rocatigeno grams were obtained but in not all of the cases were the bronch filled. Lipsoido Lafar, a thick yellowish of with an solution content of o y gar per cubic centi meter has no local irritating effect and is absorbed in such slight amounts that it produces only a vers.

mild todism. In most cases the authors used jodum brin which is as pure and as well tolerated as hipodol more fluid easier to inject, and produces a better

charlos

In the cases of patients with a tendency to cough a teapopoul of a ½ per cent solution of syrupus code or fortior is given one half hour before the injection. Local ansathesia is induced by snabbing the phatyng and larynt three times at intervals of five munites with a 10 per cent solution of occaine containing a few drops of 1 1 000 adrenalm and syringing the larner and the upper tracheal mucous membranemath 3,0 cm of this solution. For the oil injection a 5 cm laryngeal syrings with a cannula attached is used. The cannula is 15 cm long and has a caliber of 2 mm.

The cannula guided by the lary agoscope is into duced through the rima glottida- and the oil heated to 37 degrees C is slowly injected along the antenor tracheal wall. The patient breathes deeply and quietly and insofar as possible the injection is made during inspiration. The quantity estimated as necessary to fill one lung is between 0 and 30 c cm. The injections usually require from three to five injustices.

The sodized oil flous readily in the bronch problem to the best of the best of the body. Durin, and immediately after the injection the oil is guided to the part of the lung to b studied by placing the patient in the proper position. When the putent coughs or retches the oil tends to escape into the essiphagus and stomach.

The lung bases are injected with the pattent seated and learning toward the side of the lung to be examined. For the middle and upper lobes the injection is made with the pattent stiting on a couch the foot of which is elevated. Immediately after the injection he is placed on the affected side, head down ward. Rolling the pattent forward and backward on the involved side helps to fill the bronch.

Immediately after the injection a transitory trched rile is undidule and coughing is apt to occur. The patient is urged to suppriss coughing. A few deep breatt's will usually overcome the irritation. The next injection may then be given. No divspura or other disturbance of importance has been noted

The dry after the injection expectoration is often considerably increased but in a few days the spattan u utilly falls below the previous quantity. The first trace of todine appears in the unne after about it hours. The exercition reaches its maximum in wenty four hours and then gradually falls and after six divised in appears.

In the cases reported there were no unfavorable secondary reactions with the exception of a fever of 38 deg ees C in one case and cory 2a and head, che in another. If the cannula used for the injection is foo short, the oil is apt to enter the exophagus.

Injection of the oil by puncture of the cruothy roid membrane is associated with danger as it has been known to cause the formation of ... harmatoms on the po terior tracheal wall perilary pagel ordems and detachment of the tracheal purcous membrane

The use of a bronchoscope in one case was of no special value and caused discomfort

The roentgenogram should be made as soon as possible after the injection of the oil After from twenty to thirty minutes the picture of the bronchial tree becomes blurred as the result of ejection by couching and absorption

The method described is of value to obtain in formation with regard to anatomical variations in the bronchi, certain pathological changes in the bronchi and lungs which are not shown by ordinary roentgenograms dilatation of the bronchi and alve oli fistulæ with possibly a bronchial connection the location of the cavities, and the extent of the infiltrations.

The authors have seen beneficial effects from 10 dized oil in a case in which the results of routine todine therapy over a long period of time were un satisfactory. Indice can be given in considerably larger doses in oil without risk of unfavorable secondary reactions.

Pleural injections of doses as small as from 1 to 2 c cm in cases of pleurisy caused long continued rises in the temperature

WALTER C BURKET M D

Packard G B, Jr Empyema in Children Colo rado Med 1026, xxiii, 85

With regard to the treatment of empyems in children, the only surgical measure indicated during pneumonia is the aspiration of fluid to reheve pressure on the heart and opposite lung. The mass thesia of choice is local anasthesia but introus oxide oxygen an eitheria induced by an expert is very satisfactor. Ether is to be avoided.

The closed method of treatment was used in twenty five cases the time of drainage averaging twenty seven days, and the open method (in presection) in five cases the time averaging fifty four days. The closed method has many advantages when cartful after care can be given. The after treatment consists in trigation of the empy ema cavity with Dakin's solution twice daily and regular aspirations of the accumulated secretions at intervals of two or three hours with repeated injections of Dakin's solution.

There was only one death of the complications of this media was the most common and acute nu phritis the next most common. There was one case each of invositis, endocarditis, erysipelas, chicken pox, meningitis, and subphrenic abscess

RALPH B BETTMAN M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Hooniz A. R. Muscle and Fascia Suture with Relation to Hernia Repair Surg Grace & Obst

In the dog the internal oblique muscle and Pou part's hgament unite firmly when they are brought into apposition by suture even when considerable tension's exerted on the sutures.

The formation of a raw surface by the resection of a small strip of the edge of the internal oblique tendto make the union firmer than usual

When the fascia lata of the dog is sutured to the underlying muscle these structures unite firmly provided the intervening layer of the arcolar tissue has been removed

Microscopic sections show that this union of muscle to fascia is accomplished by the growing to gether of the connective tissue fibers of the plane sheet of fascia (Poupart's ligament or fascia lata) with the fibers of the epinnysium perinnysium and endomysium.

GASTRO INTESTINAL TRACT

Haudek The Rehability of the Gastric Niche in the Diagnosis of Ulcer (Zur Frage der Verlaessischkeit der Magenunsche iner die Ulcusdiagnose) Fortehr a d Geb d Roenter stratten 1022, xxxii 56 621

In the recent herature the reliability of the gastra inche in the diagnosis of ulcer has been questioned. Haudes regards it as an entirely reliable sign of uffer when it is associated with the complete character istic syndrome. The diagnosis is certain however only when the ulcer is situated in the middle portion of the stomach.

Haudek discusses a few cases in which even though an ulter is not found at operation, such a lesion may be present. Not uncommonly an ulter is overlooked during operation. When the findings are apparently negative the gastrocoloc mentum should be split and the posterior wall of the stomach ex

Mention is made of cases reported by Simon and Mintion is made of cases reported by Simon and Mintion in which an apparent niche was produced by processes outside the stomach such as adhesions everting traction on the serous side of a healed ulcer Haude, calls attention to the diagnostic mistake in these cases and interprets the picture as a typical contrast filling of the diadenopound flexure within the gastric shadow. The error is attributed to the fact that because of his weakness the patient was not examined in the standing position. If he had been eramined in this position the gastric and intestinal shadows could have been separated by pressure. Haudek denies the presence of a miche also in Alti.

schul s case in which a niche was simulated by a tu mor in the tail of the pancreas with a focus of calcification

Senous difficulties arise undoubtedly in the presence of a diverticulum of the duodenojepunal flexing that is condition as in cases of true gastnedicette ula simulating niches mistakes may be made by even expenienced examiners

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It is easy to avoid mistaking a niche for an atypically situated dome of the left colonic flexure and for a pseudo niche in the angle which is nothing more than a normal bulging of the lesser curvature be tween two powerful presistaly constructions.

The question as to whether a differentiation be tween ulter and carcinoma is possible Haudek answers affirmatively with regard to primary car romma situated in the descending portion of the stomach but admits that it may be uncertain when an ulcer shows malignant despenation. He includes in his article a table of the roentgenological differences between the two lessons. It is admitted that in certain cases the differential diagnosis was not easy but to show that a correct diagnosis was not easy but to show that a correct diagnosis was made eventually. Haudek reports statistics demonstrating that a carcinoma was never found when a diagnosis of ulter was made and an ulter was never present when the diagnosis was actionoma. Reconstructive (2)

Bufalini M Rational Surgical Treatment of Gas tric and Duodenal Ulcer (Sul trattamento chu urgico razionale dell' ulcera gastrica e duodenale) Arch ital di chur 1925 xiv 641

Bufalini reviews the results of the various methods of operation for ulcer from simple gastro enterostomy to the most extensive resections and concludes that there is no method of treatment that furnishes an absolute guarantee against recurrence or the de velopment of peptra ulcer.

When resection was first performed numerous statistics were published which showed a much lower percentage of peptir ulera safer this operation than after simple gastro enterostomy but as the late results have become more evident the difference is not nearly so great

In the attempt to prevent recurrence and peptic ulcer surgeons have passed from simple resection of the pylorus to resection of the antimum and then to substotal and even total resections of the stomach with the idea of eliminating the hydrochloric acid which is supposed to be the cause of peptic ulcer

But you Haberer found peptic ulcer in two persons in whom extensive resection had brought about complete absence of free hydrochloric acid

In view of this fact and the further facts that extensive resections have a mortality considerably higher than that of gastro-enterostomy that they suppress not only the hydrochloric acid but also other necessary constituents of the gastric secretion and that they often cause serious digestive disturb ances Bufalian regards the simpler and more conservative operation as preferable unless there are special indications for extensive resection

AUDREY G MORGAN M D

Sole The Indications and Technique of Gastrectomy (Indicaciones y técnica de la gastrectomía)

1 rch artent de enferm d abar disest 10 5 1 106

In describing his method of performing gastrectiony the author makes no claims to originality but states that he has perfected the pre operative and postoperative care of the patient and his operative technique to such a point that the mortality of the operation has been reduced close to that of a simple gastro enterostomy. He therefore feels justified in suggesting a further widening of its field of indications.

With regard to the pre operative care he discusses the lowering of hypertension, the use of tonics disalen, polyvalent vaccines physiological saline solution glucose and insulin lavage oral and dental care breathing evercises and blood transfusion

Following the administration of morphine and scopolamine local anæsthesia is induced by the injection into the gastrohepatic omentum of 10 c cm

of I per cent novocain

The operative technique is shown in ten illustrations Complications discussed include hepatic dysfunction acute gastric dilatation and partial occlusion of the orifice of anastomosis by spasm malposition and traction. In the author's cases these complications are rare

The most important part of the report is the discussion of the indications for gastrectomy. Gas trectomy is now considered the operation of choice

for ulcer

Gastropylorectomy is indicated in all cases of ulcer of the lesser curvature both pylone and juxtapy lone in which the process is limited the inflamma tory inhiltration is not too extensive the lesion is not too firmly adherent to the pancreas and the general condition is not unfavorable

Sole performs it also for ulcer at the point of gas tro intestinal anaxomous (gastrojejunal ulcer) and in cases of divotenal ulcer. In cases of divotenum in which exclusion of the duodenum in which exclusion of the duodenum in selection of the duodenum in selection of the duodenum in selection of the duodenum in the selection of the duodenum with dilatation difficulty is experi enced in effecting a satisfactory duodenopiunostomy.

Contra indications to gastropylorectomy in ulcer

I Hamorrhage In cales with hamorrhage, oper ation may be considered only when there is repeated bleeding or the pulse is not above 100 and the tension is good

2 Inflammatory conditions When inflamma tion is present it may be prudent to await regression of the process and a more favorable condition before

operating

3 Perforation into the free peritoneal civity eight hours previously. In cases of perforation into a closed cavity with perigastritis it is well to wait at least sixty days before doing a gastrectomy.

With regard to the treatment of cancer the author urges a radual procedure and favors an exploratory laparotomy in order to get the patient operated upon early enough for radical resection

JOHN W BRENNAN M D

Enstmond C Gastro Intestinal Infection Its Roentgen Manifestations Brit J Radiol 1926

Roentgenograms of the stomach frequently show usually on the lesser curvature, immediately behind the pylorus more or less localized filling defects which are mainfestations of localized infections. These defects are seldom over 1½ in in extent. The infections are characterized by congestion, round cell infiltration, and fibrosis. The affected part shows minute points of barium retention or local areas of exagerated barium density or presents a rigid tubular aspect with a change in the peristaltic waves.

Non ulcerative deformities of the duodenum arusually considered to be the result of adhesions secondary to pericholecystitis but the author believes that infection of the duodenum is commonly concidental with infection of the gall bladder and that the changes noted in the roentgen examination are due to changes in the duodenal wall itself. Adhesions may be the result of a periduodentis as well as a pericholecystitis. The roentgen findings are in constant irregularities of form due to the chronic round cell infiltration and fibrosis. When the infection involves the second portion of the duodenum the rugal markings may be obliterated constrictions may occur or the emptying rate may be changed

Infection in the terminal deum may produce rigidity and a change in the motility of the part which is demonstrable roentgenographically. The rigge may be flattened and there may be a variable irregularity of form and contracture of the lumen. The pathological basis is the same as that in the stomach and duodenum. Incompetency of the ileocretal valve is a frequent finding because the selerotic condition prevents proper accommodation of the parts for closure of the valve.

In the colon infiltration and fibrosis incident to chromic infection lead to loss of elasticity and ir regularity of contraction. The sigmoid is involved most frequently. The author believes that in certain cases the formation of diverticula is an extension of the infectious process.

variety which is more acute is destructive and ulcerative The \ ray examination reveals gastric hypotonicity and intestinal hypermotility principal sign of ileocretal or executive tuberculosis is the progressively increasing intolerance of the cæcum to any content. In the authors cases with ulceration this was demonstrated by fluoroscopic observation and palpation. The only other case in which it was noted was a case of retroperitoneal sar coma which had raised and displaced the excum

The authors report five cases in which the diag nosis of cacal involvement was made from the \ ray findings. In these cases the cacum was removed When the diagnosis can be made from the clinical symptoms the condition is usually beyond operative relief The evidence of gross pathological changes in the bowel before its resection was slight. In two cases only the appendix showed gross evidence of disease but in two others there were no significant changes in the appendix. The authors reject the theory that the appendix is the first intestinal lo-

calization of the disease

In cases of tuberculoma or the hyperplastic type of intestinal tuberculosis surgical removal is often indicated to rule out malignancy or relieve obstruction The results of resection of the cæcum in these cases are usually very satisfactory as not infre quently the patient is free from tuberculosis else where In the operation great care must be taken to prevent infection

The article is supplemented by a number of roent WILLIAM I PICKETT M D

genograms

Ockin A Acute Appendicitis A Study Based on the Material of the Municipal Military Hospital of Moscow (Die akute Appendicitis auf Grund des Materials des staedtischen Soldatenkovkranken hauses in Moskau) Verhandl d 16 russ Chirur genkoner Moscow 1924

Of 4 103 cases of appendicitis treated in the Municipal Hospital of Mo cow out were acute Six hundred and seven were operated upon the ratio of those operated upon to those not operated upon being therefore I I 8 The critical period for the development of peritonitis is the first eight days Later the tendency is toward abscess formation Of the 328 ca es treated surgically forty two were operated upon on the first day forty four on the econd day twenty seven on the third day twenty one on the fourth day twenty on the fifth day ten on the sixth day twelve on the seventh day six on the eighth day eleven on the ninth day six on the tenth day fifty six between the eleventh and eight eenth days and seventy three between the nine teenth and twenty fourth days

A diagnostic error was made in three ca es (o 9 per cent) In 196 cases the appendix was removed in 117 only a laparotomy or extraperitoneal section was done and in fifteen a combined operation was performed

The author usually operates within the fir t twenty four hours When early infiltration has occurred without menacing symptoms be waits until the second day At later stages he on rates only on the most urgent indications

Of the seventy six deaths in the cases reviewed sixty eight were due to diffuse peritonitis four to localized peritonitis with abscess one to narcosis and three to severe complicating diseases. The total mortality in the cases of acute appendicitis was 8 1 In the cases operated upon it was 23 2 per cent In the forty two cases in which op ration was performed on the first day there was one death a mortality of 2 4 per cent. The cause of this death was peritoneal sepsis. In the forty four cases on r ated upon on the second day there were eight deaths from diffuse purulent peritonitis a mortality of 18 2 per cent With op ration on su ceeding days the mortality rose to 22 2 per cent on the third In cases of diffuse p ritoritis the mortality was too per cent

Operation within the first twenty four hours is urgently indicated but in Russia this is not always possible on account of general conditions

SCHARCE (2)

Hertzler A E An Inquiry into the Nature of Chronic Appendicitis 1m J Obst & Gynec 1926 Royston G D and Fisher A O Appendicitis in

Pregnancy 1m J Obst & Gynec 1926 It 184 From an investigation to determine the nature of chronic appendicitis HERTZLER draws the following

conclusions I Fibrotic changes in the appendix of whatever

degree are not attended by clinical symptoms 2 The anatomical structure of the appendix which is commonly removed on the diagnosis of chronic appendicitis shows no variation from that of the appendix of a person without any abdominal complaint whatsoever

3 Considered in the light of like changes in other organs the minimal changes alleged to be present in cases of so called chronic appendicitis are wholly inadequate to explain the symptoms ascribed to them

Mere alleged relief of symptoms after the removal of the appendix is not sufficient to prove that the appendix was the cause of the symptoms

5 The vast majority of patients subjected to ap pendectomy for chronic appendicitis do not claim

relief of their symptoms

6 The symptoms alleged to be due to chrome appendicitis can be relieved by searching out and removing the actual cause without molesting the appendix ROYSTON and FISHER state that acute appendi

citis in pregnancy progresses very rapidly and per foration is almost always followed by diffuse spread ing peritonitis with little tendency toward localization and abscess formation

In most instances the diagnosis is not difficult but in some cases the symptoms may be masked by the discomforts of a stormy pregnancy. In the presence of acute abdominal symptoms suggesting appendictis, the complication of pregnancy should be disregarded. Early interference in such cases is even more urent, if possible, than in the ordinary case

The authors are of the opinion that appendectomy should be recommended for women who had attacks of appendicitis before they became pregnant. Even though they successfully passed through one or more attacks, the risk of a recurrence during pregnancy is too great to be disregarded. The results of operation in the early months of pregnancy are apparently as good as those obtained in the non pregnant state and the danger of abortion is very slight. Ten cases are reported.

In the discussion of these reports HEVD said that must be accepted on faith. He believes that the infected appendix should be regarded, not as a single iso lated organ with symptoms of its own, but as an irritated viscus which interferes with the harmonious action of the entire gastro intestinal tract

A number of years ago, when Hey d had occasion to tabulate the so called 'cures' of chromic appendicitis by appendectomy he was greatly surprised to find that a cure was not obtained when the appendix was removed for simple localized pain on the right side, whereas in the cases in which the appendectomy was done for symptoms referable to the upper

tomy was done for symptoms referable to the upper abdomen and there were no demonstrable patho logical changes in either the gall bladder or the stomach a cure resulted almost invariably

Praneur stated that in the late cases he found a gangrenous ruptured appendix and frequently be gunning general peritonitis due to lack of localization A measure which may save life is enterostomy or exceostomy done in connection with the appendix the catgut is placed around the base of the appendix, the appendix is removed flush with the execum a No 28 French cathleter is introduced into the opening and fastened to the edges of the wound with a stitch of catgut and the pursestring is tied. A second purse string suture is usually employed to make the cathleter more secure in the intestine. The cathleter sbrought out through a stab wound and the ab

domen is drained by means of a cigarette drain through the primary incision. This procedure makes it possible to control distention establish drainage and introduce glucose solution directly into the intestine.

E L CORNELL M D

Neumann, W Chronic Appendicitis According to the Statistics of the Municipal Military Hos pital of Moscow (Die chronische Appendictis nach Angaben des staedtischen Soldatenkovkranken hauses in Moskau) Verhandl d 16 russ Chruur genkongr, Moscow 19 4

In the last thirteen years 3 258 cases of chronic appendictis have been treated on the surgical division of the Municipal Military Hospital of Moscow One thousand and sixty two of the patients were

males Forty even per cent of the patients were in the third decade of life

Three thousand and eighty two of the cases were operated upon In twenty one cases removal of the appendix was impossible because of deep infiltration Local anæsthesia was employed in 30 per cent

Postoperative pneumonia occurred in ninety cases (3 per cent), and suppuration in 310 cases (10 per cent). There were twenty two deaths, a mortality of 0 7 per cent. The cause of death was narcosis in four, peritonitis in fourteen, sepsis in two, hamo philia in one, and labor in one

The author believes that appendectomy is indi

cated after one attack of appendicitis

SCHAACK (Z)

Ehason, E. L. Pylephlebitis and Liver Abscess Following Appendicitis Surg Gynec & Obst. 19 6, valu. 510

Pylephlebitis and abscess of the liver have come to be regarded by many surgeons as the same condition. Liver abscess may arise through four channels the portal veins the hepatic artery, the bile ducts and possibly, although in no case has this been demonstrated, through the lymphatics.

When the bepatic artery is the portal of entry, the abscesses are small and multiple and death results from the original blood stream infection. When the bile ducts carry the infection the abscesses are distributed accordingly and puis is found in the ducts. In diffuse peritonitis the lymphatics are probably was of the portal veins that both pylephlebitis and hepatic abscesses occur even then the two conditions are not always associated as is shown by one of the cares reported in this article.

Eliason has collected in all fifty three cases of pyephlebits with twenty seven deaths a mortality of 59 per cent. In some of these cases the diagnosis was not confirmed by operation or autors.

The signs and symptoms include fever, leuco cytosis pain interius, tenderness, cedema nausea and vomiting ascites lassitude, anorevia and ema ciation. The last three were marked in every case in cases presenting the symptoms mentioned and in the region of the lower ribs in the mid axillary line a firm or boggy cedema with the characteristics of a lymph rather than a vascular cedema, Eliason be lieves an exploration is warranted. The λ ray find ings are important

The author reports twelve cases of liver abscess and two of pylephlebits. In seven of twelve cases of liver abscess only a single abscess was found. The oldest patient was 67 years of age. The youngest with abscess was 13 years old, and the youngest with pylephlebits. 7 years old beven of the fourteen patients survived. In the sixty seven cases reported to date—fifty three in the literature and fourteen reported in this article—the mortality was 54 5 per cent.

If a careful study of the reported cases is made two startling facts are brought to light the first,

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R Muscle and Fascia Suture with Re lation to Herma Repair Surg Gynec & Obst 1926 vlm 222

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GASTRO INTESTINAL TRACT

Haudek The Reliability of the Gastric Niche in the Diagnosis of Ulcer (Zur Frage der Verlaesslichkeit der Magennische fuer die Ulcusdia_nose) Fortschr a d Geb a Roenig nstrahen 192 xxxii 56 651

In the recent literature the reliability of the gastroned mache in the diagnosis of ulcer has been questioned Haudek regards it as an entirely reliable sign of ulcer when it is associated with the complete character stite syndrome. The diagnosis is certain lowever only when the ulcer is situated in the middle portion of the stomach.

Haudek discusses a few cases in which even though an ulcer is not found at operation, such a lesion may be present. Not uncommonly an ulcer is overlooked during operation. When the findings are apparently negative the gastrocolic omentum should be split and the posterior wall of the stomach expanded.

Mention is made of cases reported by Simon and Altschul in which an apparent niche was produced by processes outside the stomach such as adhesions extended the stomach such as adhesions extended the such as a such as

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Serious difficulties arise undoubtedly in the presence of a diverticulum of the duodenojejunal flexure. In this condition as in cases of true gastne diverticula simulating niches mistales may be made by even experienced examiners.

With regard to reports by Reiche Petren and Edlinger the author states that inches are not pro trusions and that there is no premonitory symptom of perforation Perforation is extraordinarily rare in niche formation because of the adhesions around the niche

It is easy to avoid mistaking a niche for an atypically situated dome of the left colonic flexure and for a pseudo niche in the angle which is nothing more than a normal bulging of the lesser curvature between two powerful peristal'ic constrictions

The question as to whether a differentiation be tween ulcer and carcinoma is possible Haudel answers affirmatively with regard to primary car romom situated in the descending portion of the stomach but admits that it may be uncertain when an ulcer shows malignant degeneration. He includes in his article a table of the roentgenological differences between the two lessons. It is admitted that in certain cases the differential diagnosis was not easy but to show that a correct diagnosis was not easy but to show that a correct diagnosis was note eventually. Haudek reports statistics demonstrating that a carcinoma was never found when a diagnosis of ulcer was made and an ulcer was never present when the diagnosis was acarinoma. Roesperits 67)

Bufalini M Rational Surgical Treatment of Gas tric and Duodenal Ulcer (Sul trattamento char urgico razionale dell' ulcera gastrica e duodenale) Arch tial di chir 1925 xiv 041

Bufalini reviews the results of the various methods of operation for ulcer from simple gastro enterostom; to the most extensive resections and concludes that there is no method of treatment that furnishes an absolute guarantee against recurrence or the de velopment of pentic ulcer.

When resection was first performed numerous statistics were published which showed a much lower percentage of peptic ulcers after this operation than after simple gastro enterostomy, but as the late results have become more evident the difference is not nearly so great

In the attempt to prevent recurrence and peptic ulcer surgeons have passed from simple resection of the pylorus to resection of the antrum and then to subtotal and even total resections of the stomach with the idea of eliminating the hydrochloric acid which is supposed to be the cause of peptic ulcer The diagnosis is usually made from the hamorrhage or the later evidence of perforation. The condition may be mistaken for perforated appendicitis. Oper ative intervention offers the only hope of cure. The discriticulum should be removed. If the patient sondition will not allow this, eventration of the loop and drainage of the perioneum must suffice.

The authors report two cases of their own and re view thirteen cases reported in the literature

WILLIAM J PICKETT M D

Pascale G Peptic Ulcer of Meckel s Diverticulum (Ulcera peptica del diverticolo di Meckel) Ann stal di chir 1925 IV, 965

Only eight cases of ulcer of Meckel's diverticulum have been reported in the literature. In four the lesion was found at autopsy, and in the others, during emergency operations performed on various diagnoses.

The author reports a case of his own in which the diagnosis was made before operation. The patient was a 41 year old woman who, since 1912, had been having crises of pain in the para umbilical region without any true gastric pain or hæmatemesis, had passed blood mived with pus per rectum, and had periods of obstinate constipation lasting for seven or eight days.

Appendicitis was evaluded by the fact that there was no fever and the para umblical pain did not radiate into the iliac fossa. The pain in ulcer of Meckels diverticulum is independent of meals and of the kind of food eater. It may be accompanied by gastric symptoms but not by vomiting or hæma temesis. The hæmorrhage from the intestine is more serious the nearer the ulceration to the insertion of the mesentery. The longer the diverticulum and the nearer the ulcer to its tip the less the hæmorrhage.

In the case reported, the roentgen examination showed the stomach, duodenum and ileocæcial region to be normal. At the site of the pain to the right of the umbilical region, was a loop of small intestine containing a dark, well defined shadow which suggested a calculus. A diagnosis of simple ulcer of the small intestine was made

Operation revealed a Meckel's diverticulum with a calculus and the scar of a healed ulcer. As the appendix was entirely normal, it was not removed. The diverticulum was exceed, the opening in the wall of the intestine sutured in three layers and the addominal wound completely closed. Recovery was uneventful, and the patient has had no further symptoms.

Peptic ulcers of Meckel's diverticulum are identical with round ulcer of the stomach in their anatomical form, the condition of the tissues around them, and their course and outcome. In all of the cases in which a histological evanimation has been made, gastric mucosa has been found in the diverticulum. These islands of primitive embryonic gastric mucosa in abnormal surroundings develop abnormally be cause of lack of function, and the biological condition of the mucosa is affected by a change in the secretion of the mucosa is affected by a change in the secretion.

of the peptic glands which favors ulceration as the result of other vascular, nervous, and infective factors

The only treatment is radical removal of the diverticulum

AUDREY G MORGAN, M D

Castex M R Romano N and Beretervide, J J Insufficiency of the Hooceecal Valve (La insufi ciencia de la vilvula deo cecal) Arch argent de enferm d apar digest, 1925, 1 124

Experiments on animals and observations on man through a cacal fistula have shown that the fleo cacal valve is a true sphincter which retains facal matter in the small intestine until digestion is complete and prevents reguritation from the large in testine. Insufficiency of the valve may result from mobility of the caccum, atrophy of the tissues an inflammatory process a congenital defect, or a tumor in the fleocacal region, but its most common cause is dilatation of the caccum caused by simple stagnation of frecal matter, an excessive accumulation of gas dyspepsa from putrefaction and fermen tation, chronic colitis followed by atony of the wall, or parasitic colitis.

The symptoms are chiefly the general symptoms of intovaction but there is tenderness on pressure over the valve. The valve is situated at the intersection of a line connecting the highest point of the crests of the illum with a line perpendicular to the middle point of Poupart's ligament. In some cases the distended execum can be seen in the right illue fossa and pressure everted with one hand on the ascending colon and the other on the execum so as to force the valve will make the swelling disappear. In roentigen examinations of 3,000 patients Case found insufficiency of the ileocacal valve in one sixth.

The clinical histories of twelve cases are reported with the roentgenograms. Except in extreme cases, the treatment is medical. The intestine should be evacuated three or four times a day. The best method of supplying sugar to the large intestine to favor the growth of flora that will protect against putrefaction is the administration of from 60 to roo gm of lactose daily. Cases in which intestinal para sites are present should be treated with yatren, sto varsol, treparsol or emetine.

In sixty cases which Kellogg treated medically a cure was obtained in 36 per cent, improvement in 40 per cent, and slight benefit in 14 per cent. His radical surgical treatment consists in extenorizing the elecenceal region making a U shaped suture to overcome the invagination of the small intestine and restoring the continuity of the ruptured habenula of the execum.

Address of Morgan, M D

Larimore J W, and Fisher, A O Tuberculosis of the Cæcum Ann Surg 1926, lxxxii 496

Tuberculosis of the intestine is of three types the hyperplastic the fibrous and the ulcerative Primary intestinal tuberculosis tends to remain localized and to be hyperplastic, while the secondary vanety which is more acute is destructive and ulcrative. The X-ra veammation reverls gastric hypotonicity and intestinal hypermothity. The principal sign of ideocacial or excoordic tuberculosis is the progressively increasing intolerance of the occum to into content. In the authors cases with ulcration this was demonstrated by fluoroscopic observation and palpation. The only other case in which it was noted was a case of retroperitonical sizcroma which had rused and displaced the execum

The authors report five cases in which the diag noss of creat involvement was made from the V-ray findings. In these cases, the cascum was removed When the diagnosis can be made from the climical symptoms the condition is u ually beyond operative relief. The evidence of gro pathological changes in the bowel before its resection was slight. In two cases only the appendix showed gross evidence of disease but in two others there were no significant changes in the appendix. The authors reject the theory, that the appendix in The authors reject the theory, that the appendix is the first intestinal lo calivation of the disease.

In cases of tuberculoma or the hyperplastic type of intestinal tuberculous supreal removal is often indicated to rule out miligance or relieve obstruction. The results of resection of the caccum in these cases are usually very satisfactory as not infrequently the patient is free from tuberculous else where. In the operation great care must be taken to

Prevent infection
The article is supplemented by a number of roent genograms
William I Prevent M D

Ockin A Acute Appendicitis A Study Based on the Material of the Municipal Military Hospital of Moscow (Die akute Appendicits auf Grund des Materials des stretch chen Soldatenkovkranken hauses in Moskau) Verhandl d 16 russ Chirur genköngr Mo com 1942.

generally assess of apprendicts treated in the Municipal Hospital of Mo cow 935 were acute. Six hundred and seven were operated upon the ratio of those operated upon to those not operated upon being therefore it is. The critical period for the development of pertomits is the first eight days. Later the tendency is toward abscess formation of the 328 ca. es treated surgically forty two were operated upon on the first day forty four on the

econd day twenty seven on the third day twenty one on the fourth day twenty on the fifth day ten on the sixth day twelve on the seventh day six on the eighth day eleven on the minth day six on the tenth day fifty six between the eleventh and eight eenth days and seventy three between the nine teenth and twinty fourth days

A diagnostic error was made in three ca es (o o per cent) In 196 cases the appendix was removed in 117 only a laparotomy or extraperitoneal section was done and in fifteen a combined operation was performed.

The author usually operates within the first twenty four hours. When early infiltration has occurred without menacing symptoms he waits until the second day. At later stages he op rates only on the most urgent indications

Of the seventy six deaths in the cases reviewed sixty eight were due to diffuse peritonitis, four to localized peritonitis with abscess one to narcosis and three to severe complicating diseases. The total mortality in the cases of acute appendicitis was 8 r per cent. In the cases operated upon it was 23 2 per cent In the forty two cases in which op ration was performed on the first day there was one death a mortality of 2 4 per cent The cause of this death was peritoneal sepsis. In the forty four cases op r ated upon on the second day there were eight deaths from diffuse purulent peritonitis a mortality of 18 2 per cent With operation on succeeding days the mortality rose to 33 3 per cent on the third day In cases of diffuse peritonitis the mortality was 100 per cent

Operation within the first twenty four hours is urgently indicated but in Russia this i not always possible on account of general conditions

SCH LACK (Z)

Hertzler A E An Inquiry into the Nature of Chronic Appendicitis Am J Obst & Gyncc 1926

Royston G D and Fisher A O Appendicitis in Pregnancy Am J Obst & Gynce 1026 Vt 184

From an investigation to determine the nature of chronic appendicitis. HERTZLER draws the following conclusions

r Tibrotic changes in the appendix of whatever degree are not attended by clinical symptoms

The anatomical structure of the appendix which is commonly removed on the diagnosis of chrome appendicates shows no variation from that of the appendix of a person without any abdominal complaint whatsoever

3 Considered in the light of like changes in other organs the minimal changes alleged to be present in cases of so called chronic appendictis are wholly madequate to explain the symptom ascribed to them.

4 Mere alleged relief of symptoms after the removal of the appendix is not sufficient to prove that the appendix was the cause of the symptoms

that the appendix was the cause of the symptoms

The vast majority of patients subjected to ap
pendectomy for chronic appendicities do not claim

relief of their symptoms

6 The symptoms alleged to be due to chronic

appendicitis can be relieved by searching out and removing the actual cause without molesting the appendix ROSSON and FISHER tate that acute appendi

ctus in pregnancy progresses very rapidly and per foration is almost always followed by diffuse spread ing peritonitis with little tendency toward localization and abscess formation

In most instances the diagnosis is not difficult but in some cases the symptoms may be masked by the discomforts of a stormy pregnancy. In the presence of acute abdominal symptoms suggesting appendictis, the complication of pregnancy should be disregarded Early interference in such cases is even more urgent, if possible, than in the ordinary case

The authors are of the opinion that appendectomy should be recommended for women who had attacks of appendictits before they became pregnant. Even though they successfully passed through one or more attacks, the risk of a recurrence during pregnancy is too great to be disregarded. The results of operation in the early months of pregnancy are apparently as good as those obtained in the non pregnant state and the danger of abortion is very slight. Ten cases are reported.

In the discussion of these reports. Here is all that much of the pathology of chronic appendicitis must be accepted on faith. He believes that the infected appendix should be regarded, not as a single iso lated organ with symptoms of its own, but as an irritated viscus which interferes with the harmonious action of the entire gastro intestinal tract.

A number of years ago when Heyd had occasion to tabulate the so called 'cures' of chronic appendictus by appendectomy he was greatly surprised to find that a cure was not obtained when the appendix was removed for simple localized pain on the right side, whereas in the cases in which the appendectomy was done for symptoms referable to the upper abdomen and there were no demonstrable pathological changes in either the gall bladder or the stomach a cure resulted almost invariably

PHANEUF stated that in the late cases he found a gangrenous ruptured appendix and frequently be ginning general peritonitis due to lack of localiza tion A measure which may save life is enterostomy or excostomy done in connection with the appen dectomy In this procedure a pursestring suture of catgut is placed around the base of the appendix the appendix is removed flush with the cæcum, a No 28 French catheter is introduced into the opening and fastened to the edges of the wound with a stitch of catgut and the pursestring is tied. A second purse string suture is usually employed to make the catheter more secure in the intestine. The catheter is brought out through a stab wound and the abdomen is drained by means of a cigarette drain through the primary incision

This procedure makes it possible to control distention establish drainage, and introduce glucose solution directly into the intestine

E L CORVELL M D

Neumann, W Chronic Appendicitis According to the Statistics of the Municipal Milliary Hos pital of Voscow (Die chronische Appendicitis nach Angaben des staedtischen Soldatenkovkranken hauses in Moskau) 1 erhandl d 16 russ Chirur tenkongr Voscow 1924

In the last thirteen years, 3 238 cases of chronic appendicuts have been treated on the surgical division of the Municipal Military Hospital of Moscow One thousand and sixty two of the patients were

males Forty even per cent of the patients were in the third decade of life

Three thousand and eighty two of the cases were operated upon In twenty one cases removal of the appendix was impossible because of deep infiltration Local anæsthesia was employed in 39 per cent

Postoperative pneumonia occurred in ninety c ises (3 per cent), and suppuration in 310 cases (10 per cent). There were twenty two deaths, a mortality of 0 7 per cent. The cause of death was narcosis in four, peritonitis in fourteen, sepsis in two, hamo philia in one, and labor in one

The author believes that appendectomy is indi

cated after one attack of appendicitis

SCHAACE (Z)

Eliason F L Pylephlebitis and Liver Abscess Following Appendicitis Surg., Gynec & Obst., 1926, thm, 510

Pylephlebitis and abscess of the liver have come to be rigarded by many surgeons as the same condition. Liver abscess may arise through four channels the portal veins the hepatic artery, the bile ducts, and possibly, although in no case has this been demonstrated, through the lymphatics.

When the hepatic artery is the porial of entry, the abscesses are small and multiple and death results from the original blood stream infection. When the bile ducts carry the infection, the abscesses are distributed accordingly and pus is found in the ducts. In diffuse peritonitis the lymphatics are probably the carriers. It is only when the infection travels by way of the portal veins that both pylephichits and hepatic abscesses occur, even then, the tv o conditions are not always associated, as is shown by one of the cases reported in this article.

Eliason has collected in all fifty three cases of pyephlebitis with twenty seven deaths a mortality of 59 per cent. In some of these cases the diagnosis was not confirmed by operation or autopsy

The signs and symptoms include fever, leuco cytosis pain, icterus tenderness, œdema, nausea and vomiting ascites lassitude, anorexia and ema ciation. The last three were marked in every case. In cases presenting the symptoms mentioned and, in the region of the lower ribs in the mid axillary line a firm or boggy ædema with the characteristics of a lymph rather than a vascular ædema, Eliason be lieves an exploration is warranted. The X ray find ings are important.

The author reports twelve cases of liver abscess and two of pylephlebitis. In seven of twelve cases of liver abscess only a single abscess was found. The oldest patient was 67 years of age. The youngest with abscess was 13 years old, and the youngest with pylephlebitis, 7 years old. Seven of the fourteen patients survived. In the sixty-seven ca.es reported to date—flity three in the literature and fourteen reported in this article—the mortality was 54 5 per cent.

If a careful study of the reported cases is made two startling facts are brought to light the first, 110 that in every case a provisional diagnosis or a re

tained diagnosis of right basal pneumonia was made and the second that a positive operative diagnosis was made very tardily The treatment was surgical

The author draws the following conclusions Pylephlebitis and liver abscess are not identical They occur as a complication in from 0 1 to 0 4 per cent of cases of appendicitis

2 The \ ray and fluoroscope aid in the early diagnosis by showing a high diaphragm the move ment of which is sometimes restricted

Local cedema and prominent veins are valuable diagnostic signs

A Pain is not always present. It is noted most when the infection is in or on the upper surface of the liver

5 Pneumonic signs are frequently the result of lung compression rather than pneumonia

Taundice is practically a constant sign The presence of lassitude and anorexia is very

suggestive in the diagnosis 8 The prognosis is not always poor since recov

ery results in 54 per cent of the cases o Operation through the diaphragm is the treat ment of choice CARL R STEINKE M D

Cantelmo O An Experimental Study of the I hysionathology of Ileosigmoidostomy (Contributo sperimentale alla fisiopatologia delle ilcosigmoid ostomie) Inn stal di chir 19 5 IV 1001

Cantelmo reports his experimental work on eight dogs The histological structure and function of the colon are practically the same in the dog and man but in the dog there is no sigmoid in the true sense of the word the descending colon passing to the ampulla without any flexure. Anastomosis between the ileum and the lower part of the colon in the dog is equivalent to ileo igmoidostomy in man

Four of the author's dogs died the mortality being therefore so per cent. In all of those which died the intestine was full because a purgative had not been given or an enema was not effective. In the only one of these dogs in which no operative measures had been taken to exclude the intermediate tract of the intestine nutrition remained normal while in the three in which steno is of the intermediate tract had been brought about nutrition was very poor

The report is supplemented by roentgenograms of the eight animals From these and examinations of the specimens the author concludes that in the dog a low ileocolostomy has little effect in deviating the current of intestinal centents from its normal path unle s operative measures are taken to bring about steno is of the intermediate tract The current pa ses over the anastomotic opening without becoming engaged in it and follows its old path unless the lumen of the sleum is obstructed in some other way as for example by peritoneal bands If the ileo colostomy is supplemented by stenosis of the post anastomotic segment of the intestine the current is deviated and pas es through the new opening When under the same experimental conditions the post

anastomotic ileum is obstructed the pre anastomotic part of the colon assumes a compensatory function in acting on the chyme which flows back from the post anastomotic terminal colon The reflux into the intermediate colon following a low ileocolostomy does not seem to be any greater than is necessary for this compensating action

In comparing low ileocolostomy with anastomosis between the ileum and higher segments of the colon the author found that the former is less ant to be followed by reflux into the execum with starnation of the intestinal contents. After a high anastomosis enormous accumulations of faces sometimes occur in the execum Low ileocolostomy had the disadvan tage of excluding a long tract of the intesting while high anastomosis is associated with the danger of serious reflux. The author believes that the former is less dangerous than the latter

AUDREY G MORGAN M D

Mandl F The Field of Application of the Primary and Secondary Drawing Through Procedure Following Resection of Rectal Cancer by the Sacral Route Alson Demonstration of the Pos sibility of Artificial Prolapse and Its Applica tion (Zur Anwendungsbreite des primaeren und sekundaeren Durchzugsverfahrens nach Resektion des Mastdarmkrebses auf sakralem Wege gleich zeitiger Hinweis auf die Moeglichkeit einer kuenst lichen Prolabierung und deren Ausnutzung) 1rch f klin Chir 1925 CXXXVI 470

Even though a number of leading surgeons have recently contended that a truly radical operation for cancer of the rectum can be accomplished only by a combined operation the sacral operation is still regarded as the method of choice at the Hochenegg Chnic

In the ruthor's opinion the drawing through pro cedure is the safest method of treating the gut after resection of the rectum. He attributes Kirschner's poor results with it to its performance in the absence of a definite indication and the use of an incorrect

(angrene of the gut must be avoided. The part of the gut to be drawn through must be well nour ished therefore no blood vessel that is important for its nutrition should be ligated and the part of the gut drawn through must not be subjected to too great tension. The proximal portion of the intestine must be applied to the anus of the peripheral portion of the gut without tension

In order to maintain the viability of the part of the gut drawn down the wound cavity should be made as small as possible the soft parts drawn toward the intestinal wall and care taken that gauze tampons are not placed tightly around the gut. In cases in which from the beginning errors of asepsis cannot be avoided the surgeon should proceed antiseptically by wiping with Pregl s iodine solution

Before the gut is drawn through the proximal portion should be closed completely with gauze

In the peripheral portion of the rectum mucosa should first be removed

The technique as regards the portion of the gut brought to the anus should be as simple as possible

In the after treatment, it is most important to prevent stenois of the anus. Consequently the sphincter portion must be subjected to the systematic use of bougies, beginning about ten days after the operation.

The author discusses also the so called secondary drawing through technique of Weil For cases in which after resection of the rectum, there is complete separation of the afferent portion of the gut from the anal portion with prolapse of the former, Weil suggested drawing the prolapsed portion of the gut through the pempheral portion after opening of its upper cicatricially contracted end. On the basis of quite a large number of favorable results ob tained with this method the author suggests that in every case in which a resection can be undertak en with maintenance of the sphincter portion and in which any difficulty is experienced in the circu lar suture or the drawing through method the sphincter portion be left and the proximal portion of the sacral anus be loosely sutured. An attempt might then be made to produce a prolapse from the sacral anus by artificial methods. With the development of the prolapse the quite reliable sec ondary drawing through procedure could be done

DENCKS (Z)

Powilewicz A Imperforate Anus Corrected by Operation Associated Megasigmoid (Imperforation anale opéree et guérie megacolon sigmoidien concomitant) Bull Soc d'obst et de gynée de Par 1925 114, 637

The author reports the case of an infant which was brought for treatment on the third day after birth because of vomiting, abdominal distention and absence of bowel movements Examination revealed complete absence of the anis The kin over the

anal region was perfectly smooth Operation was performed immediately Through a longitudinal median incision and an incision joining the ischial tuberosities, the blind pouch constituting the rectum was found 1½ cm below the surface This pouch was opened drawn down and sutured to the skin The infant recovered, and when seen a year later was normal. At that time, at the suggestion of Couvelaire, the intestine was examined with the X-ray. This examination revealed marked distention of the sigmoid and of the lower part of the descending colon. As no secondary constriction had followed the operation, the distention was regarded as congenital

In the discussion of this case COUVELAIRE cited a case of the same type in which the megacolon was not discovered until adult life. The patient, a worn an, was operated upon in the third month of pregnancy for what was thought to be a cyst. Instead a dilated pelvic colon containing a frecal impaction was found. The fracal mass was broken up. After the operation the pregnancy continued normally to term.

Madelung O W Empalement Wounds of the Anus and Rectum (Pfachlungsverletzungen des Afters und des Mastdarms) Arch f klin Chir,

The author collected 276 cases of empalement wounds of the anus and rectum. Thirty five years ago be pointed out the importance of this type of injury and since that time has followed the subject with special interest.

Madelung describes the different methods by which such wounds may be produced and their character. They may be classified anatomically into wounds of the rectum and their complications such as wounds of the vagina the connective tissue, and the bones of the pelvis wounds of the bladder and urethra and wounds of the peritoneum and the in transitional organs.

The clinical course varies according to the severity of the injury. Of the patients whose cases are reviewed twenty nine died within the first forty eight hours. The symptoms associated with each type of wound are described. Peritonitis in particular is discussed. Of 103 cases of involvement of the pentonium peritonitis developed in eighty four. Thirty two of the patients with peritonitis recovered. Of these twenty three were subjected to laparotomy. Fifty two died.

Of the 103 persons sustaining a rectal wound open ing into the pentoneal cavity, forty three recovered and sixty died. Of forty four who were subjected to languatomy, twenty nine recovered and fifteen died

In the diagnosis, attention should be given to the direction and depth of the empalement, par ticularly with regard to the presence of an opening into the peritoneal cavity. The author gives detailed instructions concerning the examination in different types of injury.

The patient should be treated in a hospital, since even when the external wound is small there may be a severe internal injury. When possible he should be transported to the hospital in the sitting position

In doubtful cases a laparotomy should be per formed without delay, involvement of the pento neum is nearly always disclosed Enemata should never be given under any curcumstances. External suture of the wound is also dangerous The treat ment indicated in involvement of the different organs is described in detail Schuernanny (Z)

LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Fetter W J The Present Status of Functional Tests of the Liver Allantic M J 19 6 xux 289 Grier G W Y Ray Diagnosis of Diseases of the Liver and Gall Bladder Allantic U J 1926 xux

Maclachlan W W G The Significance of Bile Pigment Atlantic M J 1926 vox 297

FETTER attaches definite clinical value to the liver function test with phenoltetrachlorphthalein according to the method of Rosenthal a procedure in which

the rate of liver extretion is estimated by determining the amount of the dye retained in the blood serum. However when obstruct e jaundice is present the value of the test is lessened because fiver function and jaundice are parallel in degree. The dye test is indicated therefore in non-obstruct.

The tolerance tests of the functional capacity of the liver hen dealing with carbohydrates Fetter

has found disappointing

Gettre states that the V ray is of little and in the diagnosis of liver disea e unless the contour of the organ has been changed by disease. Direct evidence of carcinoria or other tumors can sometimes be obtained by roentigen examination and shade is of stones in the gall ducts or gall bladder are often demonstrated.

When stones fail to cast shadons their presence may be reveiled following the use of sodium tetra iodophen liphthalian which is excreted through the liver and renders bite opaque to the \times ray their cassing shadows corresponding to the shape of the gall bladder whenever it is possible for the dye laden bile to enter that organ. The absence of the gall bladder shadow when the technique is dependable indicates obstruction of the estit duct.

Grier advocates the use of pneumoperatoneum in the differentiation of liver disease from other conditions in the hepatic region such as nathological

masses above the diaphragm

MACLACHIAN gives a comprehensive review of the theories of the formation of hile pigment, climg the opinions of Blankenhorn McNee Mann McMasters Whipple Hooper Rous van den Bergh Muel enraht Ruh and Bunstead

He believes that bile pigments can be produced without the lever the liver merely storing or exercting them. He ves the tests for bile pigments as an aid to early diagnoss. Attention is called to the fact that the class, at exarumation of the scheep and skin in bright lavlight seldom fails to reveal acterus if it is present.

is present. When Maclachlan desires to make a test for bile pagments in the urine he instructs the patient to decrease his fluid intake in order to concentrate the

DE VIS IL CRITE ALD

Snell A M The Clinical Application of Recent Studies on Jaundice Surg Gynes & Obst 1926 xlst 528

I ecent physiological tudies have definitely established the fact that bitributh the principal pig ment of human bile is formed outside the liver from harmoglobin. Mann and his coworkers at the Mayor Clinic have brought forward evidence to show that his transformation is effected chiefly in the spleen and hone marro's presumably through the agency of the retucile endothelial system.

According to McNee an excess of bile pigment in the blood stream may be due to (1) the excessive production of bilirubin from hamoglobin, (2) obstruction in the bile passages with subsequent re ab sorption of bilirubin or (3) disturbance of the function of the polygonal liver cells and their failure to excrete bilirubin in quantities sufficient to keep pace with production

The types of jaundice resulting from these condutions may be classified as harmolytic obstructive and torus or infectious. A basis for differentiation is furnished by van den Bergh is test, which gives an indirect rection in harmolytic jaundice a direct reaction in obstructive jaundice and either a delayed hiphasis or direct reaction in the torus or in fectious type. This test while not an entirely satisfactory basis for such differentiation is most useful in the recognition of latent jaundice and the quartitative study of hile pigments in the blood stream

It has been difficult to shor thanges in carbo phydrate and protein metabolism in jaundiced patients by means of functional tests but in jaundiced animals diminished fruitose tolerance and lowering of the blood urea occur quite constantly. Since a liberal supply of carbohydrate has been shown to protect the liver from tour injury, and since de fective carbohydrate metabolism is known to accompany jundice dues high in carbohydrates and intranenous injections of gluco e have been used thinkally in such cases with entitying results.

In studies of liver function in experimental and mals and in patients a remarkable parallelism be tween the degree of mundice and the degree of re tention of dyes such as phenoltetrachlorphthalein is shown. The reasons for this are obscure but cer tain observations seem to show that the dve reten tion may be due to functional impairment in the liver cells as well as to a pathological change. This is demonstrated by the fact that die retention ac companies intravenous injections of Jublethal doses of dilute whole bile and that there is an immediate development of high grade dye retention in expenmental animals after cholecystectoms and ligation of the common duct. In such ca es no adequate patho logical basis for the dye retention can be demonstrat ed It is apparently not justifiable to reckon damage to the hepatic parenchyma due to jaundice in terms of phenoltetrachlorohthalein retention alone a number of other factors mu t be taken into account

Other ronstituents of bile such as taurocholic and glyco-holis, and ar, retained during obstitutive jaundice and may have a profound effect on the organism. Recent methods have been develop of lor the study of bile acids in the blood and at the Mayo Clime experimental and chincal work, shoring unfertaken to determine their rôle in obstructive and dissociated naundice.

Rodríguez M C Primary Lyopneumocyst of the Liver (Lioneumoquiste primiti o de bigado) Semina mél 1925 xyriii 824

The author reports two cases of primary pop pneumocyst of the liver with postoperative sept complications. The first patient was a man of 37 years who came for treatment for pain in the right hypochondrum slight fever, and a substetic color of the conjunctiva. After he had been in bed under observation for a week he was suddenly seized with intense pain in the right hypochondriumassociated with vomiting a small, rapid pulse, and a tempera ture of 3 o decrees C

On examination, the right lobe of the liver was found greatly enlarged and the liver dulness replaced by tympany. An eosinophilia of 4 per cent was present. The Wassermann test was negative. This tools were coloriess. No parasites, owa, or vesicles were discovered. Roentgen examination showed the right side of the diaphragm to be very high and almost motionless, and disclosed, beneath the diaphragm, a semiliunar clear zone bounded below by a straight line which moved when the patient's position.

was changed
At operation, performed under ether anasthesia,
a cyst was found in the liver and a large amount of
gas, pus, and vesicles was discharged
Free drainage
was established

On the twelfth day the patient's temperature was 40 degrees C, profuse sweating occurred, the pulse was small and rapid, and there was marked prostration. A frank septicæmia then developed with car date weakness and a temperature varying from 37 to 41 degrees C. Under treatment with autogenous vaccines, fixation abscesses and irrigation of the abscess cavity with a disinfectant, the patient recovered.

The second case was that of a man of 35 years who four years ago, had had pain in the night hypo chondrium radiating to the shoulder. This pain ceased spontaneously but a short time before the patient consulted the author it recurred suddenly with nausea and vomiting, a temperature of 40 degrees C, frequent unnation and copious diarrhees

On examination, the right lobe of the liver was found enlarged. Extending from the fourth nb to the costal margin was a tympanic zone surrounded by dulness. The intradermal hydatid test was weakly positive. The cosnophiles equaled 23 per cent. The Wassermann test was negative. The roentigen picture was similar to that in the author 5 other case.

Operation was performed under novocain adrenatin anasthesia by the transpleurodiaphragmatic route. The abscess was found about 1 cm below the surface of the liver. A large amount of gas and fettld pus containing vesicles was discharged. Tree drainage was established. Signs of insufficiency of the liver developed a week later, and the patient died after two days.

Ricen L Cholecystitis and Diabetes Northwest Med 1926 xxv 191

In injection experiments on dogs the author succeeded in demonstrating that lesions of the islands of Langerhans resulting in the symptoms of diabetes can be produced by hæmatogenous infection main tained for a sufficiently long period of time The fact that he never succeeded in lowering the sugar toler ance of animals in which the gall bladder had been temoved suggests that the infected gall bladder may

damage the pancreas, and particularly the islands of Langerhans, to such an extent as to produce diabetic symptoms

Whenever the injections produced a februle re action, the micro organisms injected were found in the gall bladder. This explains in part at least, the well known fact that infections errously aggravate the symptoms of diabetes. CARL R. STEINKE M.D.

Martin E D Complete Cholecystostomy Versus Cholecystectomy in Cases of Empyema of the Gall Bladder South M J 19 6 xix 198

The author describes an original surgical procedure for the relief of the patient who is acutely sick from empyema of the gall bladder. This operation may result in a cure and requires no more time than that necessary for drainage of the gall bladder. It was first employed as a temporary and life saving meas ure. To date it has been performed in twelve cases with satisfactory and permanent results, but it is not recommended to replace cholecystectomy when the latter is indicated and can be done without increasing the risk.

The usual incision is made through the right rec tus and the other abdominal viscera are packed off sufficiently to expose the gall bladder from its fundus to the cystic duct The gall bladder is emptied with suction apparatus, swabbed out with jodine, and then packed with gauge to prevent the escape of pus when it is opened. It is incised from the fundus to the cystic duct If the gall bladder is small, no effort is made to remove redundant tissue. If it is greatly distended, as much of its wall is cut away as neces sary and all bleeding points are ligated. A cigar drain with a tube in the center is sutured against the mucous surface. No adhesions are freed except those interfering with the performance of the operation The complications of the operation have been neg-SHIRLEY C LYONS M D hgible

Giordano D The Development of Carcinoma in Calculous Cholecystitis (Della comparsa di car cinoma entro a talune colecisti calcolose) Riforma med 19 5 th 1157

Giordano has found cancer in one of every seven teen of cases in which he has performed an operation for gall stones. He reports the case of a 63 year old woman in whom an operation for gall stones revealed an adenoma of the gall bladder. The patient was living and well fourteen years after the operation Giordano believes that if the timor had not been removed, it would probably have undergone malignant degeneration.

A man 61 years old who was operated upon for gall stones and found to have cancer had suffered from attacks of gall stone colic for twenty five year Gordano believes that if this patient had been oper ated upon earther his life would have been sayed

In another case a cancer of the pancreas was found

Giordano concludes that the irritation of gall stones is often responsible for the development of cancer and while he does not hold that operation should be performed immediately in every case of gall stone colic he believes that if a reasonable period of medical treatment does not cure the symp toms, the patient should be sent to the surgeon as operation may save him not only from gangrene or perforation of the gall blydder and suppurative cholangeits but all of from malignant degeneration and the gall blydder and suppurative cholangeits but all of from malignant degeneration are greatly of the support of the gall blydder and suppo

Castex M R and Galan J C Glardiasis of the Billiary Tract (La giardiasis de las vias biliares) Irch argent de enferm d ipir digest 1925 i 30

The giardia intestinalis is a flagellate protozoan which inhabits the intestine of man and some animals. It was first described by Lambl in 1850 In 1883 it was named lamblia intestinalis by Blanchard

The parasite has two forms the vegetative and the cystic. Its chief labitat is the duodenum and the upper part of the jejunum but it sometimes enters the gall bladder or bile ducts and in exceptional cases the stomach. It may be found in the fixes or the flunt obtained by sounding the duodenum. The manner in which the infection occurs in man is not known. Rats mice and cats have been osidered hosts of the parasite but the identity of the types occurring in man and animals has not yet been proved. Some investigators believe that the prinsite is water borne as it has been found in the sediment of porcelain fillers.

A greater number of the authors patients with grandiasis have suffered from constinution than from The syndrome includes dy pepsia an oregia loss of weight painful distention of the abdo men and enlargement of the liver the last sometimes associated with pain and occasionally a sociated with icterus. In some of the cases there was pain in the duodenal region coming on two or more hours after meals resembling that of duodenal ulcer or chronic cholecystitis and associated with vomiting eructation or nausea. In almost all of the cases the condition was accompanied by headache pain in the nape of the neck physical and mental prostration insomnia neuralgia and painful precordial oppre sion. In some cases there were symptoms resembling those of true cholelithiasis I eriduodenitis was found in many. The chinical details of nine cases are given

Gardians is one of the most difficult parasite discases to cure. The authors have obtained the best results with alvarsan Experiments on animals have shown that salvarsan must be given in large doses but this is more or less dangerous as the liver is enlirged and hepatic function is more or less insufficient. Kantor recommends beginning with o 60 gm and increasing the dose rapidly to 00 gm.

AUDREY G MORGAN M D

Coffey R C Dilatation of the Common Bile Duct in the Absence of a Functioning Gall Bladder Ann Surg 19 6 Ixxvii 479

The author has demonstrated by experiments that when a duct is implanted without valve forma

tion the duct dilates but when a valve is produced it does not dilate. The pressure within the gall duris is much less than the static pressure within the bowl. Peristalis within the duodenum produces an interval of lower pressure or a relative vacuum during which bile may escape into the duodenum When the duodenum is at rest. the valve at the out let of the duct is closed and bile must remain in the

biliary system. The gall bladder is the chief reservoir for bile when digestion is not going on. In the absence of a functioning gall bladder due to disease or removal of the organ the bile ducts become dilated. This did nation is not entirely harmless as the author demonstrates by the histories of two cases in which the gall bladder had been removed for gall stones. In both of these cases the symptoms continued and at a second operation performed some time later the common duct was found dilated to the diameter of \$4\$, in and greatly thickened. The bile within the duct was normal in color and consistency and there was no evidence of stone formation or other obstruct.

The author concludes that dilatation of the ducts is alone sufficient to account for the persistence of symptoms

WILLIAM J. PICKETT M.D.

Chiray Lebon and Gozlan A Study of Esternal Pancreatic Insufficiency as Indicated by the Enzymes in the Duodenal Juice Removed with a Sound (Edude de Insuffisance pancréatique externe par le dosage des enzymes dans le suc doo dinal prilevé par tubage) Bull et mêm Soc mêd d hôp de Par 1925 xh 1646

The authors studied pancreatic function by determining the eazymes in the duodenal juice before and after the administration of a pancreatic stimulant. While there are many substances that stimulate pancreatic secretion most of them are usual factory for such studies as they stimulate also the secretion of the stomach liver and intestines as result the pancreatic juice is greatly diluted and the dilution brings about a decrease in the concentration of the enzymes that may appear pathological of the conversion o

Of the substances investigated only milk gave a practically constant increase in the enzy mate power of the duodenal juice and as this fact was discovered only recently, exact measurements of the normal and pathological values of the external pancreates seer too have not yet been workedout. From the findings made to date it appears that the lipase activities the duodenal puter collected under the more substantial and the collected under the more data of the more data of the duodenal data the proteoly its activity should exceed to c cm of decinorals of the decinorals of the decinorals of the decinorals of the decinoral of the de

After the introduction of the duodenal sound from 40 to 60 c cm of a solution of 33 per cent magnesium sulphate is first introduced to empty the gall blader of its contents. After the execuation of all of the

gall bladder bile and a few cubic centimeters of Bile C, 60 c cm of warm whole milk is injected slowly The opening of the sound is then closed to keep the milk from flowing out. At the end of half an hour the ducdenal juce is removed by aspiration or siphon age. Sometimes it is necessary to inject a little warm water to start the flow. In the duodenal fluid removed in this way, the ferments are measured intervals of ten minutes the lipase being determined by the author's modification of Bondi's method and the trypsin by the method of Guiltier, Roche and Barattie

Damade and Grailly attribute the stimulating action of milk on the pancreas chiefly to the milk fat as they found a greater increase in the ferments after the use of whole milk than after the use of skimmed milk AUDRIN G MORONN, M D

Escudero P II Terrada, H M and Gallino M Cystic Tumors of the Head of the Pancreas Roentgenological Diagnosis (Tumors quisticos de la cabeza del pancreas diagnóstico radiológico) dreh orgent de enform d apar dieges 1 925 1 342

A discussion of the \times ray picture of pancreatic tumor of the cysic type is followed by a brief review of the clinical findings in a case studied by the authors. In the latter, the tumor was visible in the right epigastrum and was palpated as an irregular, firm mass located chiefly in the right epigastrum and the umblindal region. It could be deplaced over into the left side of the abdomen and a couple of fingerbreadths downward without causing pain but pressure over the left pole or attempts to displace the mass upward resulted in intense pain in the lum bar region. The tumor itself was insensitive.

ray examination at the time of the ing the contrast medium and at the fourth sixth lighth, and eighteenth hour demonstrated only a long vertically placed stomach with the floor of the an trum below the level of the iliac crest the whole displaced to the left, and progressive stages of filling of the duodenum, which encompassed the tumor forming a large C with its concavity to the left The duodenum was somewhat dilated, and its shadow curve was cut off suddenly as though the duodenal lumen had been closed by compression at the point where the inferior and ascending part crossed the vertebral column Good roentgenograms were ob tained only by filling the stomach with contrast material and then expressing the material manually through the pylorus into the duodenum It was im possible however to force the contrast material or to introduce the duodenal sound beyond the point of seeming compres ion

The condition was diagnosed as a tumor compressing the stomach at the greater curvature causing deformity of the antrum and dislocation of the pylorus and gravely compromising gastric evacuation. Operation disclosed a cystic tumor compressing the stomach and duodenum but without adhesions. Upon incision, the mass suggested a round cell sar compression that has not removable. A gastro enteros

tomy was effected with relief of the symptoms due to poor evacuation of the stomach and duodenum JOHN W BRENNAN, M.D.

Ashby, H T and Southam A H Splenic Anæ mia of Young Children Treated by Splenectomy Brit M J 1926 1 411

Splene anæmia of young children, sometimes called you Jakeh's disease occurs in the first three years of life and is characterized by marked enlargement of the spleen and general debility. The condition is chronic and in advanced cases the prognosis is un favorable.

In the triatment the \times ray, arsenic and iron have been found of little value. The authors report three cases treated during the past year by splenectomy priceded by roentgen irradiation and blood cransitission. In all of these cases there has been apparently rapid improvement in both the general health and the blood picture.

I EDWARD BISHLOW M D

Whipple A O Splenectomy as a Therapeutic Measure in Thrombocy topenic Purpura Haem orrhagica Surg Gynec & Obst 1926 xlii 329

The etiology of purpura hamorrhagica is not known the pathology ill defined and the differential diagnosis at times difficult. In the treatment, splen ectomy is done because in many cases of chronic purpura the spleen is enlarged and as the removal of the normal spleen results in an initial increase in blood platelets the procedure seemed logical in a disease characterized by a low platelet count. As the reticulo endothelial cells get rid of jaded or excessive blood platelets it seemed logical to assume that in a disease such as purpura hæmorrhagica in which the platelets are few or absent, some part of this system is overactive and if the overactive cells are largely limited to the spleen the removal of this organ would promise good immediate and prob ably permanent results. On the other hand if the entire reticulo endothelial circle is involved splen ectomy would remove only a part of the overactive apparatus and in the presence of such a profound vascular disturbance as that in the acute form of purpura would be extremely hazardous

It appears that in purpura hæmorrhagica the blood platelets are formed in normal numbers but are de stroyed by overactive phagocytosis in the spleen and other parts of the reticulo endothelial appa

Purpura hemorrhagica is characterized by five fairly definite findings (1) paucity or absence of platelets (*) a prolonged bleeding time (3) failure of the clot to retract (4) a normal clotting time and (5) the appearance of petechies in the skin of an extremity below a tourniquet applied to shut off the venous but not the atternal flow

When once the diagnosis has been made it must be determined whether the disease is present in the chronic recurrent form or in the acute fulminating form. The former type is usually cured by splene. tomy promptly and permanently while the latter is seldom influenced favorably by it Of eighty one collected cases eight were operated upon during the acute stage with seven deaths. In

seventy three cases of the chronic form there were only six postoperative deaths

HARRY W. FINK. M.D.

Mayo. W. J. The Mortality and End Results of

Mayo W J The Mortality and End Results of Splenectomy Am J M Sc 1926 clvn 313

Before recommending the removal of a diseased spleen the ply icean must satisfy himself that cure by medical measures cannot be expected and that the prospects of cure by splenectomy are sufficiently good to make the operation worth the immediate risk to the patient

The author's purpose in this communication is to analyze briefly from the standpoint of operative mortality the experience with 417 cases in which splenectomy was performed and to comment on the after history of the patients as related to the opera

The spleen 1 a hamolymph gland which belongs to the retruction endothelial system and has three known functions. Its first function is to filter from the blood stream micro-organisms and vanous torce age its. These it destroys or sends to the liver for destruction or detoxication. The failure of the spleen to function as a filter results in its enlargement as in malana and syphilis and the chromic torus pleno.

megaly of the splence anæmia type. The second function of the spleen is to produce white blood cells one of the most important being the lymphocyte without which there would be no healing of wounds or repair in the body. All of the white blood cells have defensive functions especially the large mononuclear endothelial leucocyte. In cases of leukæmia a malignant expression is manifested in the unlimited production of white blood

cells which have the power of oxidation through their

nuclear activities but are without function because of the lack of cytoplastic control

of the race of cytographic control on the race of cytographic control of the cytographic control of the cytographic cytographi

Sufficient clinical experience is now at hand to demonstrate beyond peradventure that in a number of diseases which would otherwise prove fatal re moval of the spleen will effect a cure

The statistics of early splenectomy show that the mortality was formerly from 25 to 35 per cent. The

number of cases not being large it is fair to assume that the high death rate led to delay of operation until the patient's condition grew so serious that splenectomy was certainly more than justified as a last resort

A vicious circle was thus established in which the high mortality brought about a delay responsible or a still higher mortality. Operative methods in the early history of splenectomy left much to be desired but better technique of which Balfour's method of splenectomy is a fine example has greatly reduced the surrecial death rate.

From April 1 1904 to January 1 1926 splened tomy was performed in the Mayo Clinic in the fol

lowing 417 consecutive cases

H ptal mortal ty Cases Cases Pront Disease of the spleen due to infection and toric agents 100 20 15 3 Abnormality of the white blood cells 2 50 4 0 4 8 Abnormality of the red blood cells 147 7 30 0 Splenic neoplasm īΛ 3 Surgical accident 10 Indefinite and unclassified 10 10 0 Total 417 10 3

From this table it is seen that the average hospital mortality was slightly more than 10 per cent All of the deaths that occurred in the hospital without regard to the cause or the time are included. If one adopted the thirty day rule that is considered that if death took place more than thirty days after opera tion without surgical complication it was not an operative death there would be a marked improve ment in these statistics but unless an arbitrary method of classifying mortality is adopted the ten dency is unconsciously perhaps to improve the Moynihan speaking of comparative statistics says Statistics can be made to tell any thing even the truth Certainly the method of computing the hospital mortality with the opera tive mortality at least gives the worse side of the

picture

A survey of the foregoing experience demonstrates clearly that the removal of the spleen is compensated for by the widespread tissues of the reticulo endothelial system of which physiologically the spleen is a none too important part. The diseases with which the spleen is concerned are complex and pathological processes are seldom primary in this origin it often acts merely as an agent of destruction.

From the surgical standpoint it may be said that if the patients are properly rehabilitated and on the up grade as the result of proper methods of preparation the mortality of splenectomy will be less than per

cent

Experience has shown that the splient should never be removed for a chronic condition when the patient is on the down grade. The dangers of the operation are due largely to delay and an unfortunate change of cases. zeotta N. A Contribution on the Surgen and Physiology of the Spleen Changes in the Blood Picture and Basal Metabolism Caused by Splenectomy (Contributo alla chururgia e fisiologia della miliza alterazioni ematologiche e del meta bolismo basale determinate dalla splenectomia) inn ital di chir. 1923. 19. 1144

Leotta reports the case of a 13 year-old boy who was subjected to splenectomy because of rupture of the spleen. The operation was followed immediately by a decrease in the red cells and hamoglobin but at the end of a month this was completely compen ated There was also a leucocytosis chiefly a lymphocytosis, which reached its maximum in twenty days and then decreased slowly. At the end of eight months however, the number of leucocytes was still about 15,000 A slight temporary increase in the blood platelets and a slight increase in the resistance of the red cells were noted, but there was no change in the coagulation time. These changes showed a loss of splenic function and a disequilibrium between hæmatopoiesis and hæmatolysis but were of brief duration and sufficiently compensated The child gained normally in weight and height in the eight months, and no anatomical changes occurred except slight enlargement of the lymph glands especially the cervical carotid and inguinal gland

The basal metabolism showed a marked increase The average basal metabolism in a boy of 13 years is from ± 38 to ± 49 while in the first four months after the operation in the case reported it was ± 57 then decreased progre ± 191 to ± 196 ± 196 and remained at ± 51 at the end of the eighth month. In discussing the significance of the increase the author urges further research on the endocrine function of the spleen and particularly the relations of this organ to the thyroid

ALDREY G MORGAN M D

MISCELLANEOUS

Patel and Labry Large Closed Cysts of the Urachus (Contribution à l'étude des gros Lystes fermés de l'ouraque) Gynec et obst 19 3 x11 449

There are three principal types of malformation of the allantois (1) an umbilicose ical fistula, representing complete permeability of the canal (2) a canal closed at the umbilical end but open into the bladder causing a special form of diverticulum, (3) a urachus impermeable at both ends forming a true cyst of the last type of the last type

The patient was a woman of 37 years who had always enjoyed excellent health. About three years before she came for treatment she had an attack of intense abdominal pain with vomiting which seemed to be an ordinary attack of indigestion. During the last year her abdomen had been enlarging and con stipation had developed. There were no uniary disturbances except increasing frequency of mixturation.

on examination a diagnosis of large cyst of the ovary was made but at operation the cyst was found to lie in the cellular tissue outside the pentioneum and to involve the urachus instead of the ovary The uterus and adness were normal. The cyst was not continuous with the bladder but adherent to it and some difficulty was expenienced in dissecting it free. The wall of the bladder was injured slightly but the mucous membrane was not opened. A few sutures were placed in the bladder wall and the cyst was removed entire. The peritoneum and abdom and wall were then closed and a retention catheter was left in for four or five days. Uneventful recovery resulted.

Closed cysts of the urachus are rare the authors have found only ten cases in the literature verified by operation or autops). There are no pathogno monic signs. The most frequent erroneous diagnosis cyst of the ovari. The condition usually causes general enlargement of the abdomen and sometimes causes pain. A cyst with a median position an elongated spindle shape and adhesion to the umbilicus has been given as a pathognomonic sign but these characteristics are obliterated when the tumor becomes large. However operation is indicated even when an accurate diagnosis is unpossible.

The cyst should be extirpated since when punctured it refills rapidly. An attempt should be made to perform an extraperitoneal operation as usually very intimate adhesions are found and dissection requires more time than it is worth. No harm is done if the adherent parietal peritoneum is partially exceed. When the cyst is low, great care is necessary in its dissection from the bladder. Otherwise the operation is easy and without danger.

AUDRES G MORGAN M D

GYNECOLOGY

UTERUS

Vanverts J The Obstetrical Results of Shortening of the Round Ligaments (A propos des résultats obstétricaux du raccourcissement des ligaments ronds) Bull Soc d obst et de gynec de Par 1925 xiv

The author has performed eighteen operations to shorten the round ligaments. In seven, the ligaments were plicated intra abdominally in three they were fixed to the abdominal wall by the Dartigues method and in eight they were fixed to the posterior surface of the uterus by the method of Doleris and Webster In all but two cases the operation was per formed for mobile retroflexion and it was necessary to free the uterus from adhesions

Tifteen of the patients were re examined after an interval of not less than several months. In all the corrected position of the uterus was maintained and the menstrual and intermenstrual pain attributed to the retroflexion had been relieved. In one, the size of

the uterus had been decreased

Four of the patients subsequently passed through normal pregnancies. No time relation could be established between the operation and the occurrence of pregnancy but in the case of a patient who had previously aborted in the third month the course of pregnancy was probably influenced by the operation as this patient subsequently carried a twin preg nancy nearly to term

When the uterus is fixed the Webster operation has the advantage of covering the raw surfaces pro duced by the breaking up of the adhesions. Although this operation causes considerable displacement of the adnera it does not seem to interfere with preg ALBERT F DE CROST M'D

nancy

Prolapse Operations and the Ability to Bear Children (Vorfalloperationen und Gebaer fachigkeit) Zischr f Geburish u Gynaek 1925 12222 118

After presenting communications in which it is recommended under certain conditions to perform sterilization simultaneously with an operation for prolapse (Doederlein Reifferscheid) the author states that at the Mayer Clinic operations for pro lapse are regarded as permissible even during the age of child bearing but simultaneous sterilization is not approved

Operations recommended are anterior colpor rhaphy with suture of the bladder and the vesi covaginal septum and colpoperineoplasty with su ture of the levator an muscle. In these procedures the position of the uterus is disregarded

During the period from 1907 to 1923 ninety five women were observed who bore children after an operation for prolapse. After the operation there is no interference with cohabitation conception of pregnancy The first birth following the operation occurred on the average after two years

In a review of the course of labor attention is at tracted to the frequency of forceps deliveries This is due to the fact that for the protection of the scar and the prevention of recurrence in occipital pres entations the application of the forcers to the ro tated head with simultaneous median incision of the scar is considered the best procedure. However the figures show also that natural delivery is not made more serious for the mother or the child puerperium of the women previously operated upon was normal The best protection against recurrence is restoration of the perineum immediately after de livery BOCK (G)

Seymour H F Fndoscopy of the Uterus With a Description of a Hysteroscope J Obst & Gynac Brit Emp 1026 xxxiii 52

The instrument used by the author for endoscopy of the uterus is a straight brass tube 28 cm, long with a 6 or o cm bore and a light at the distal end There are three channels in the wall of the tube one for the rod which carries the light and two which are con nected with an electric suction apparatus direction of the instrument during its use is indicated by an aluminum handle. The tube with a 6 mm bore is for the postchmacteric uterus and cases in which dilatation to over 10 mm is difficult while the tube with a 9 mm bore is for general use

In the preparation of the patient for examination a glycerine tampon is placed against the cervit for two nights to aid in dilatation. The cervix is then slowly dilated to r mm and the hysteroscope care fully introduced \ swab on a sponge holder keeps the lamp clear of blood and is withdrawn when the instrument is almost to the fundus. It is re intro duced only if the lamp becomes smeared The suc tion apparatus is started before the introduction of the hysteroscope

The endometrium is sectionally scrutinized by turning the hysteroscope about and partially with drawing and re inserting the lighted end

The instrument and technique described have the advantage of simplicity and have proved of aid in diagnosis and the removal of satisfactory speci mens The author believes that they will be found of MAGNUS P URVES M D value also in treatment

Cron R S Chancre of the Cervix with a Report of Two Cases Am J Obst & Gynte 1926 x1 378

The author reports two cases of chancre of the cervix especially from the standpoint of infection and diagnosis One of these cases demonstrates the infectiousness of gonorrhora and syphilis before the appearance of symptoms. The patient had sexual intercourse with male No 1 three days after he had sexual intercourse with a prostitute. Neither previously nor at that time did male No 1 have any symptoms or signs of venereal disease. Two days later the patient had intercourse with male No 2. Male No 1 developed a urethral discharge and eventually a hard chance. The patient also contracted both gonorrhora and syphilis the latter manifested by a lesion in the cervix but transmitted only gonorrhora to male No 2. The author believes that the patient and male No 1 had abra sions of the mucous membrane sufficient to permit the entrance of the spirochete.

Cron describes the characteristics of chancre of the cervix. This lesion must be differentiated from simple cervical crosions, chancroid herpes simpler tuberculous ulcer gonorrheal macula and car cinoma. Simple crosion and carcinoma are the most

difficult to differentiate

The author's conclusions are the following

r The primary lesion of syphilis is frequently found in the cervix. Its apparent rarity is due to the fact that it is frequently overlooked and rapidly undergoes involution

2 Routine visual examination of the cervix especially in freshly infected syphilitic romen would demonstrate a higher percentage of primary lesions

3 The spirochæta pallida may be transmitted by conjugal relations in the absence of a macroscopi cally visible lesion in the transmitter

4 A negative blood Was ermann reaction during the primary stage does not rule out syphilis

5 The characteristics of the primary lesion on the cervix may var so widely that a diagnosis can be established only by demonstrating the sprochaeta pallida with the dark field microscope or by microscopic examination of tissue excited from the lesion and positively, only by the demonstration of the spurchaeta pallida in the characteristic Lisue

lesion

Mosher G C. The Incompatibility of Pregnancy and Fibroids of the Uterus 4m J Obs & Gyrec., 1916 x1 334.
Weiss, E A. The Treatment of Fibroids of the

Uterus Am J Obst & Gynec 19 6 x1 343

MOSHER states that pathological changes in a myoma or fibromyoma associated with pregnancy are indicated by pain hæmorrhage signs of degene ration a rise in the temperature or a high leucocy

If the tumor is situated at the brim of the pelvis so that it will cause dystocial myomectomy or hysterectomy must be considered. Abortion is contraindicated on account of the increased risk of hem orthage traumatic injury, and septic infection. Mosher believes that the casarean section operation is done in many instances without a proper indication.

The great majorit of cases of fibroid, associated with pregnancy run a favorable course after the danger of postpartum haemorthage is past. The tumor may disappear or become so small that it is no longer palpable.

Each case must be treated according to its par ticular requirements. The results depend upon the judgment and skill of the obstetrician. Mosher re-

ports seven cases

Weiss states that his attitude is decidedly con servative in uncomplicated cases of fibroids but that when complications are present he favors opera-When the preservation of the maternal and ex function is desirable removal of the fibro d by myomectomy or resection is best. The cales most tayorably affected by irradiation are those of the bleeding variety Patients with diabetes tuberculosis or cardiorenal disease are usually treated best with radium. In every case for which radium treatment is considered, curettage should be done as a diagnostic measure before the introduction of the radium. In the cases of patients less than 40 years of age great care is neces are in the use of radium in order to avoid causing a premature menoname. In many cases of fibroid, operation may be safely deterred until definite indications are e

During the past five years Wells has obtained very satisfactory results in a fair percentage of cales treated with radium but he still adheres to the general principle that y hen there is any doubt operation

is the procedure of choice

In the discussion of these reports Weiss stated that in case of pregnancy an X-ray examination with preumoperitoneum before the fifth month will outline the nodules of a fibroid tumor. The obstetrician can then determine whether any of the nodules will obstruct labor. After the fifth month, the X-ray will show the outlines of the fetus in the fibroid.

In cases in which casarean section is neces ary, Weiss is not in favor of performing hysterectomy at the same time unless degenerative changes are

pre-ent

MISSEN reported that approximately 2 per cent of the women who come to the Mavo Climic for treatment of fibroid tumors are pregnant. By conservative treatment under careful observation, practically all of these patients can be carried through to term Most of them are delivered spontaneously or with the use of low forceps or midforceps. Cesarean section is necessary in only a very few ca.es.

POLAK reported that in more than thirty years of obstetrical work he was only once obliged to perform an abdominal operation for obstruction of labor due to an incarcerated fibroid. Of late he has been performing partial resection of the uterus much

more frequently than hysterectomy

SCHIITZ stated that in the large gynecological clinics there should be at least one member of the staff who is thoroughly trained in radiation therapy, and that all radiation therapy should be under his supervision. To refer patients with gynecological

conditions to the radiologist is a mistake as the radiologist does not know how to treat them gynecologist; and the gynecologist cannot tell the radiologist how to treat them radiologically

RONZY reported that he has never seen a case of placenta pravia in a pregnant woman with uterine fibroid. He believes that the only indication for operation for fibroid tumors during pregnancy is pain that cannot be controlled by large doses of morphine.

ADNEXAL AND PERIUTERINE CONDITIONS

Daniel C A Study of the Interstitial Portion of the Normal Fallopian Tube (Ptude sur la trompe interstitielle normale) Gynée et obst. 1026 xiii 1

The study reported in this article was made on thirteen uters four of which were infantile and the rest adult. It was found that the interstituty portion of the tube is a sepirate entity in the adult uterus but up to puberty is more nearly like the uterine cornu. The configuration of the lumen in this portion is less definite than that of the outer portion with its four large longitudinal place and varies in complexity with age. In the senile uterus it is fat. In half of the specimens a 0.5 mm catheter could be massed.

As the epithelium approaches the uterine ostum theorems more uterine in type and near the uterus there is a thin internal longitudinal muscle layer not present in the rest of the tube. The entire muscle here shows a greater connective tissue content. Also toward the uterine end especially in infants there may be gland like conformations of the place and a small amount of cellular tissue resembling uterine stroma.

In the normal state the tube is closed and a pressure of from 60 to 100 mm. Hg is necessary to demonstrate its permeability. During menstration its mucosa shares in the hyperæmia of the neighboring endometrium and it becomes closed as it does also early in the course of pregnancy. The similarity of

the structure of this mucosa to that of the uterus explains how placentation is possible in this portion of the tube when the tubul mucosa does not share in the formation of the fetal envelope

The author suggests that the interstitual portion of the tube might be used for the medical treatment or surgical drainage of conditions in the outer part of the tube just as it is now used for in ufflation in sterility and the production of pneumoperitoneum Goodenic C Schupples MD

MISCELLANEOUS

Fogelson S J The Non Specific Antigenic Effect of Spermatozoa upon Fertility Surg Gynec & Obst 1026 xln 374

Togelson performed experiments on rats to de to proceed to the performent of possible a serological explanation for the type of sterify occurring in the human being which has no apparent anatomical for these logical base conception can be temporared for the performance of the pe

The mechanism causing the sterility is still not clear only precipitins being definitely present and their significance an unknown factor. The role of agglutinis may be considered negative since as marked clumping was seen in the sera of non-sen stitzed animals especially after inactivation as in specific sera. I joins were never seen and tours which fixed or rendered the spermatozo immobile were so variable that no op mon regarding them is justifiable from these experiments.

The results cast no light upon the etology of so called idiopathic human sterility but tend to eliminate protein sensitization as a causative factor and suggest the possibility of devising a contraceptive technique with a definite scientific basis

HARRY W. FINE M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Mahnert A Studies of the Effect of Iodothyreo globulin on Diuresis and Metabolism in Preg nancy (Studien ueber die Wirkung von Jodthyreo globulin auf die Diurese und den Stoffwichsel bet Schwangeren) 1rd 6 Gynack 1925 CYVI 1 5

Malnert investigated the effect of thy rod treat ment in various types of cedema in normal and discased pregnant women by studying the metabolism following the intravenous injection of rodothy regiobulin. In only a certain percentage of the normal women were metabolism and diuresis in creased by the rodothy regiobulin. The reason why a few isolated cases were refrictory could not be ascertained.

Pathological cases behaved similarly. In most of the cases the metabolism was increased to the extent that unc and urea and sodium chloride were excreted in increased amounts. Moreover, there was an increase in the cholesterin content of the serum with a simultaneous decrease in the albumin content followed later by a decrease in the cholesterin content of the serum of the of the

The author compares the disturbances of metab olism and water balance brought about in preg nancy by the injection of iodothy reoglobulin with the symptoms of hy pothy reosis occurring in the non pregnant state and agrees with the theory first ad vanced by Knaus that the function of the thyroid is decreased during pregnancy This accounts for the good effect of thyroid medication as well as of iodothyreoglobulin injections in such cases and for the fact that evidences of hyperthy roidism are never noted subsequently In the cases in which the thy roid treatment seems to have no effect it may be slow in its action or the efficacy of the thyroid prepa ration may be diminished by the acidosis occurring in pregnancy The activity of the hormone depends upon the degree of acidity of its environment

In conclusion attention is called to the similarity of the sequelæ following the administration of thy toil substance and those following the loss of weight at the end of pregnancy. The latter are attributed to increased function of the organs of internal secretion especially the thyroid of the child

MERNER (G)

Dujol G and Clement R Spontaneous Rupture
During Pregnancy of a Uterus Previously Subjected to Cæsarean Section (La rupture spontanée pendant la grossesse de l'utérus antérieurement
césanse) Rer frug de eyuée et dobsi 1925 x 5 9

The authors have collected twenty six cases of spontaneous rupture of the uterus in patients who had been subjected to cæsarean section

Statistics of France America, and England show that uterine rupture occurs after cresarean section in from 3 to 4 per cent of the cases, but these statistics include also ruptures occurring during labor

The authors estimate the incidence of rupture before labor at 156 per cent. The symptoms are classical. A sudden sharp pain in the abdomen which may or may not cause syncope is followed by the less rapid appearance of the signs of intriabdominal hemorrhage. Frequently there is vomiting. On palpation, the abdomen is tender particularly in the illrac fossa. The uterus is not well mapped out but the fetus seems to be felt under the skin and presents abnormal mobility. A few hours after the rupture abdominal meteorism is present. On auscultation to fetal heart is heard.

Sections of the ruptured scar show an intense vascularization with traces of an old infection. When the placenta has been inserted at the scar syncytial cells are found. The author reviews the theories as to the causes of weakness of the uterne scar.

Prophylactic treatment consists in watching patients who have been subjected to creasrean section and admitting them to the hospital before labor begins. If a conservative operation is possible, the Portes technique is indicated but in the attempt to be conservitive care must be taken not to expose the patient to any unnecessary risks. When haste is necessary on account of the patient's poor condition the Porto operation is indicated. A supra cervical hysterectomy may then be performed later. Subjective the patient of the patient of the patient's poor conditions that the performed later. Subjective the performed later are the patient of the performed later.

Riddel J Rupture of the Uterus During Preg nancy J Obst & Gynac Brit Emp 19 6 xxxii x

Rupture of the pregnant uterus before labor is exceedingly are I may occur in diseased degenerated or previously injured uteri as the result of indirect violence. It may be caused also by interstitial pregnancy, a new growth, hy datudiform mole weakness of a cessarean section or other sear or pregnancy in a rudimentary uterine horn. Trau matic rupture may be caused by sounds curettes bullets crushing or direct violence.

Rupture of the uterus is more common in women who have borne a number of children than in women pregnant for the first time because repeated pregnancies cause degeneration of the well of the uterus Infantilism is rarely an etiological factor as women with an infantile type of uterus are usually sterile

Tears occurring before labor are usually found in the anterior or posterior will or at the summit of the fundus. They may be longituding transverse or oblique. They are usually linear but sometimes irrigular. If contractions occur, the laceration en larges allowing the escape of the fetus into the period.

When the turning has been completed the lock of the forceps lies close to the perineum and holds in place It is not necessary for an assistant to hold this blade while the other is being applied

To apply the posterior blade two fingers are in serted into the vagina between the posterior cervical lip and the fetal head and with the other hand the posterior blade is inserted between the fetal head and the cervix under the control of the fingers When the forceps are locked they lie in the anteroposterior diameter of the pelvis Traction on the head is made in the direction of the handles slightly more down ward than upward As the hand goes deeper in the pelvis its rotation is spontaneous. If rotation has not taken place it can be accomplished with the Before extraction through the outlet is begun the sagittal suture should be perpendicular ROLAND S CRON M D to the pelvic outlet

Ferrère M A Case of Serious Eclampsia During Labor Fourteen Convulsions and Slight Loss

of Consciousness Injection of 12 Ctgm (1 8 Gr) of Morphine (Upper Limit) in Ten Hours Low Forceps Delivery After Epislotomy for Atresia of the Vulva Delivery of a Living Infant Weighing 3 150 Gm Cure of the Mother and Survival of the Infant (Eclampsie grave du travail avec 14 crises et atteinte legère de l'intellect injec tion de douze centigrammes de morphine-plafond morphimque-en dix heures forceps à la vulve après cpisiotomie lateral pour atresie vulvaire fille vi vante de 3 kilos 150 guerison de la mère et survie de l'enfante) Bull soc d'obst et de gynée de Par 1025

Important in the treatment of eclampsia with morphine is an exact knowledge of the quantity of morphine which should be given to produce a cure There is no advantage in giving more than that amount When the convulsions continue in spite of massive doses it is well to know at what point the injections should be stopped. The maximum bene ficial dose of morphine is 12 ctgm but more can be given to an eclamptic without danger

The effect of morphine on the nervous system is sometimes gradual. In the case reported by the author the occurrence of three convulsions after the final dose did not alter the originally favorable prognosis Between the convulsions the patient recovered consciousness Ordinarily no such recovery occurs

after the first three or four convulsions The morphine was administered in divided doses

14 ctgm after each crisis ALBERT I DE GROST M D

PUERPERIUM AND ITS COMPLICATIONS

Wuesthoff H A Review of Puerperal Deaths in the Last Twenty Six Years (Kntik der puerperalen Todesfaelle der letzten 26 Jahre) Monalsschr f Ge burtih u Ganaek 1923 let 180

In the University Cynecological Clinic at Kocnigs berg the total puerperal morbidity averaged 14 per cent including all cases in which the temperature rose to 38 degrees C, even those in which this rise lasted only one day In spite of the increase and eventual tripling of the number of births the an nually calculated percentage fell from 26 per cent in 1906 to 13 5 per cent The improvement is due to modern methods of disinfection, the more extensive use of rubber gloves even in simple vaginal examinations of pregnant women increased knowl edge of the nature of fever in pregnancy early and careful delivery in cases with fever exact knowledge of the indications for obstetrical operations and care with regard to the vaginal flora particularly hæmolytic streptococci

In the cases reviewed there were sixty three deaths a puerperal mortality of o 3 per cent. Nine teen of the women who died were known to have been infected before they entered the clinto Of the forty four others ten had an autogenous infection from an extragenital focus. In the thirty four cases of hospital infection there was a mortality of o is per cent and in twenty of this group of cases a more or less serious op rative procedure was necessary for delivery HINRICHS (G)

Fobes J II and Fraser W A The Treatment of Puerperal Infection Hahneman Month 1926 lu 140

For cases of puerpural infection the authors ad vocate the administration of ergot or pituitin and dramage by elevation of the head of the bed and the semi sitting position of Fowler Intra uterine douches and manipulations are of no avail because the bacteria are within the tissues and beyond the reach of chemicals or instruments. Efforts must be made to prevent a bacterizmia by limiting the infec tion and securing a parametric exudate or localizing the pelvic peritonitis

In parametritis body rest and tissue rest are indi-If the exudate becomes purulent and an abscess forms the authors incise and drain cas s of broad ligament abscess the best results have been obtained by opening the abdomen through a I fannenstiel incision to locate the abscess making a supplementary incision over the inguinal canal passing a blunt hemostat through the inguinal ring down between the folds of the broad ligament to the abscess sewing a rubber tube in place and then clos ing the Pfannenstiel incision and irrigating duly with Dakin 5 solution

Mercurochrome acriflavine gentian violet, and milk injections have not proved of value Infection is arrested most duickly by the development of a hyperleucocytosis This result is best obtained by the transfusion of normal or immunized whole blood

In the authors clinic the transfusion of whole blood is preferred because of its simplicity its absolute safety and its definite effects in restoring the bulk of the circulating blood providing oxygen and nourish ment for the tissues stimulating the hamatopoietic organs and supplying hamoglobin erythrocytes and leucocytes

Blood transfusions should be given early instead of as a last resort. They should also be given fre quently, but the quantity of blood transfused at one time should not exceed 300 c cm.

ROLAND S CRON M D

NEWBORN

Dickey L B A Study of an Epidemic of Impetigo in Newborn Infants Arch Pediat, 1926 xlm 145

In eighteen cases of impetigo occurring chieft in newborn infants in obstetrical nurseries cultures from the blebs showed streptococcus faecalis staph plococcus aluureus, and staph plococcus albus. The period of incubation is supposed to be less than three days. In some of the cases, the lesions de veloped in one day. Many solutions and utensits were found contaminated with organisms of the same type. Oils in particular and stock boric acid solution are dangerous, as they are often contaminated and allow free growth of the organisms. Boric acid solution is more dangerous than valuable. Oils should be kept in sterile containers and resterilized after use. Tap water was found infected, probably from nozzles etc. Soap also may carry the bacteria.

The primary case may have been in an infant in the children's ward nursery. The infection may have been carried to the obstetrical nurseries by internes staff doctors nurses or others After it was established in the nurseries it was probably transmitted from patient to patient through the medium of the nurses' hands solutions and articles in common use It is important that both internes and nurses should have had careful training in asepsis before they work in nurseries.

At the outbreak of an epidemic all of the babies in the ward should be inspected from head to foot Those showing any signs of the disease should be kent in the original ward and the remainder who have been exposed should be placed in another room. New arrivals after that date should be kept either with their mothers or in a third room. There must be no possible contact with either infected cases suspects or the nurses who have had charge of cases. As members of the exposed group develop the disease they should be transferred to the original infected nursery Obstetrical wards where babies are brought to nurse should be guarded from con tamination There should be prompt isolation of all other infections especially frank pus cases

In the treatment, bichloude of mercury and all cohol baths are of value but not sufficient in them selves. Opening and cauterization of the blebs with silver nitrate and the use of the ordinary antiseptic solutions is satisfactory.

GOODRICH C SCHAUFFLER M D

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Chute A L A Study of Some Cases of Hyperne phroma Boston If & S J 1926 ctciv 471

Chute reports the results obtained in forty three cases of hypernephroma thirty one of which were operated upon by him and six by other surgeons Six were not operated upon All of the patients who were not operated upon died and five of those treated surgically died of shock. In five cases only an exploration was done removal of the kidney being contra indicated because metastases were present or the organ was fixed. Ten patients subjected to opera. tion were living from two to nineteen years later

The chief symptoms of hypernephroma are hæmatuna pain and a mass in one loin Hæma turia was present in thirty three of the cases oper ated upon pain in twenty seven and a mass in twenty seven. The hamaturia may be painless and very scanty Slight pain may be caused by disten tion of the capsule and more acute pain by hæmor

rhage with distention of the pelvis

An early diagnosis is most important. The pa tient must be examined at the time of the bleeding The findings of an examination made during the quiet period are not conclusive. The \ ray exam mation must include the kidney outline. An irregu lar contour bulging at the center and a knob at one pole are suggestive. The pyelogram usually shows an abnormal pelvis As the majority of the forty three cases repor ed by the author were ex amined late the mortality was high

Chute exposes the kidney through an anterior incision through the outer border of the rectus This permits exploration of the peritoneal cavity for metastases gives more room at the pedicle than the usual incision and facilitates the recognition of anomalous vessels Dramage may be established through the loin or through the abdominal wound

CLAUDE D PICKRELL M D

Cirillo G Bacteriological Studies of Cases of Perl renal Suppuration (Recherches bactériologiques sur quelques cas de suppuration perirenale) J d'urol med et chir 1925 xx 462

From a bacteriological study of five cases of acute suppurative perinephritis the author concludes that as a rule this condition is caused by bacteria whose usual habitat is the intestine but that like appen dicitis it may be caused by different species of bac teria sometimes alone and sometimes associated with other species. In the majority of cases the in fection is polymicrobic Anaerobes play an impor tant part Among the e the bacillus perfringens and the micrococcus fœtidus are the mo timportant prob ably because in comparison with other species they are capable of adapting themselves more readily to the new conditions in the perirenal tissues

AUDREY G MORGAN M D

Mercier O The Pathogenesis and Treatment of Slight Idiopathic Hydronephrosis (A propos de la pathogénie et du traitement des petites hydrone phroses dites sans cause apparente) I d urol med et chir 1025 XT 467

The author reports twelve cases of idiopathic hydronephrosis and includes in his article three roentgenograms The great majority of such hydro nephroses are caused by adhesive bands producing fixation of the renal pelvis and the juxtapelvic part of the ureter and associated with slight ptosis of the For some unknown reason the position of the kidney is lowered 1 or 2 cm. The part of the ureter nearest the pelvis being fixed by the bands the pelvis becomes either horizontal or oblique from within outward and from above downward and its outlet is upward Because of this abnormal position the force of the contractions must be increased for normal emptying This effort finally decreases the contractile capacity of the kidney so that the urine tends to accumulate in the depression

Surgical treatment should be conservative Ne phrectomy is contra indicated because there is only slight distention of the pelvis the function of the kidney parenchyma is intact and the condition is frequently bilateral Pyeloplasty and anastomosis between the ureter and pelvis are not very effective To relieve the intense pain that is often present Papin has proposed resection of the nerve tracts supplying the kidney Complete section of the nerves will stop the pain but is a delicate operation involving danger to the blood vessels if there are pelvic adhesions and as yet has not been performed for a sufficiently long period of time for its effects on the kidney and pel vis to be known. In animals it seems to cause atony of the pelvis. On the other hand high neph ropery with liberation of the ureter is simple and effective and a logical operation since it establishes a normal position of the pelvis with relation to the ureter

In all of the cases reported by Mercier recovery was complete and permanent

AUDREY G MORGAN M D

Laquière M Serous Cysts of the Kidney and Con servative Operation (Kystes séreux du rein et opérations conservatrices) J de chir 1925 XXVI 257

The author gives the histories of five cases of cysts of the kidney This is a rare condition as only 119 other cases have been reported in the literature Brief notes of the other cases are given

Serous cysts of the kidney have no pathognomonic signs and are generally first diagnosed at operation. The pain varies in type and has no special character istics which differentiate it from the pain of conditions such as nephritic, hepatic, and gastric colic appendicits and salpingitis. If a tumor is palpated, it may be in vanous situations if the kidney is mobile, and even if it is at the normal site of the kidney its nature cannot be determined. The urine is generally normal.

The usual treatment has been resection but in the author sopinion this operation is contra indicated as the parenchyma is generally normal. It should be done only when the kidney is diseased. For all other cases the best operation is collar resection. This is an easy operation with no mortality, while the mortality of nephrectomy is about 30 per cent

Collar resection consists in puncturing the cyst and aspirating the liquid opening the cyst, and making a circular section in its wall along the line where it emerges from the parenchyma of the organ. In this way a collar of the cyst is removed and the part which is intimately connected with the kidney parenchyma is left. It lines the depression where the cyst was lodged. No attempt should be made to remove it, at most, it should be curetted and cauterized Some surgeons dislike to leave a part of the cyst, but there is not the slightest danger in doing so as the cysts never recur or degenerate

AUDREY G MORLAN M D

Condamin Vitiation of the Results of Nephrectomy for Unilateral Tuberculoss by Tubercu lous Lestons Outside the Kidneys (Des tares ap porties aux résultats de la néphrectomie pour tuber culose unilatérale par des localisations tuberculeuses extra rénales) J durol méd et chir., 1905 v.3. 31

The mortality from tuberculosis of the kidney is still high if the late results are considered. The high late mortality is generally explained by the development of a tuberculous lesion that was already present at the time of the operation. This is suggested by the lact that the figure diminishes with the lapse of time after the operation, being 31 per cent at the end of three years and 14 per cent at the end of seven years.

The author has collected 172 cases of unilateral tuberculosis in which nephrectomy resulted in a permanent cure in 69 per cent. These were cases with one extrarenal lesion. In a group of fifty, three cases with extrarenal lesions, complete recovery resulted in only 47 per cent. Bone lesions have the lest effect on the mortality of nephrectomy. In eighteen cases with bone lesions, a complete recovery resulted in 67 per cent. In twelve cases with genital lesions it was obtained in 59 per cent and in twenty one cases with pulmonary lesions it resulted in 20 per cent. Therefore while genital tuberculosis has a marked effect on the late results of nephrectomy, the lesion most to be feared as a pulmonary lesion.

There are a few cases in which nephrectomy seems to benefit the pulmonary lesion, but these are rare Cases of renal tuberculosis may be divided into three groups. In the first group are those in which there was no lung complication before operation and in 4 or 5 per cent of which pulmonary disease de velops afterward.

In the second group are those in which a few discrete lesions have been present but have disappeared or remained latent for a long time, and pul monary tuberculosis develops after the operation in

from 10 to 15 per cent

In the third group are cases in which there is mani fest tuberculosis at the time of operation and the de cision as to operation is difficult. If the pulmonary lesions are clearly progressive with fever night sweats etc , operation should not be considered. If operation is performed because of intense pain from cystitis or the danger that a large suppurating kidney may break down miliary tuberculosis of the lungs or meninges may develop. If the lesions are quies cent and not very extensive at the time of operation or if they are localized in one lung and caseation has not begun operation may be performed if there are reasons for it such as those mentioned, but in such cases the mortality is between 40 and 50 per cent. In the third group of cases operation should be per formed only if it is urgently indicated

AUDREY G MORGAN, M D

Commenge and Pasteau Deaths from Nephrectomy for Tuberculosis Based on the Constant (Morts par nephréctomie pour tuberculose sur la constante) J d urol méd et chir, 1925 vx 492

Commenge reports three cases of early death after nephrectomy for renal tuberculosis. His statistics cover sixty two cases of primary nephrectomy for renal tuberculosis performed by the lumbar route with nine deaths from one to nine days after the operation Except for one death from embolism on the twenty third day that of a woman in very poor condition these were the only cases of very early death Three deaths in four (75 per cent) were due to uramia. This percentage is almost the same as that of Legueu and Chevassu for operative deaths and that of Israel and Boeckel for late deaths As Rafin wrote in the "Encyclopedia of Urology," urmary insufficiency and anuria to which Pousson in 1900, attributed 41 per cent of the deaths, hardly enter into recent statistics at all

The question as to whether the uræma could have been prevented is discussed. It is possible that it might have been in Case r in which it was latent and the azotemia and the constant had been lowered only by a very strict diet. Operation is very uncertain in such cases as the uræma my recur on the slightest provocation but in Case r. Commenge was surprised at the randity of its development.

Its evolution in Case ? he could not understand Before the operation the azotzmia in this case was o 53 and the constant o 100 the left Lidney increased its urea concentration to 245 and yielded 147 gm in two hours Although the water function was excellent, the patient died at the end of fifty hours In Case 3 there was some uncertainty as to whether the unne labeled from the left kidney came from the left kidney or from the bladder but the zaotaemi, was 0 20 and the constant 0.06\$. This was incompatible with a blateral lesion and all of the clinical signs indicated a lesion on the right side. Neverthe less nephrectomy performed on the indications given by the constant was followed by death.

The constant has rendered Commenge great service in more than ninety nephrectonies but he calls attention to the fact that the surgeon and urologist should be on their guard against drawing incorrect conclusions in the cases of patients subjected previously to a low nitrogen diet

AUDREY G MORGAY M D

Ibuka K Function of the Autogenous Kidney Transplant 1m J If Sc 1925 clvu 497 Ibuka K Function of the Homogenous Kidney Transplant Am J If Sc 1925 clvu 420

From the results of extensive animal experimenta ton the author concludes that the successful autog enous ladney transplant in the neck of the dog functions for months in a practically normal manner while coexisting with the normal kidney in the abdomen and mantains the animal in good health for a fairly long time after the excision of the other kidney.

When a kidney is transplanted to the neck it can there be studied with regard to certain renal functions as well as with regard to its own physiological activity Analysis of the urine from the transplant and various functional tests made simultaneously with an investigation of the normal kidney in the abdomen or after the removal of the latter showed fairly normal kidney function. After ablation of the other kidney an apparently compensatory activity of the transplant was observed. It is evident that the nerve supply to the kidney and the ureter plays a minor and unessential part in renal function since the transplanted kidney functioned equally well in the new location and the renal pelvis and ureter even showed increased peristalsis. The ultimate failure of function of autogenous kidney transplants trans planted successfully to the neck and functioning there for a fairly long time seems to be caused by hydronephrosis and infection due mainly to mechani cal insult in the new location

Having established a given technique in his work on autogenous kidney transplants the author experimented also with homogenous transplantation. The surgical technique ind postoperative treatment were the same as in the previous experiments. The function of the homogenous transplants in the neck in association with the kidneys of the recipient was observed. This was found to continue for a few duys after the transplantation and to end in necross or osftening of the transplant. Chemical and functional tests proved that the homogenous transplant for a limited time but its function soon changed and final live cased whereas the autogenous transplant for

covered and assumed normal function at a time corresponding to that at which the homogenous transplant failed Study of specimens of the homogenous transplant revealed that the transplanted kidneys were affected at first by nephritic changes of the parenchyma such as cloudy swelling and degeneration of the tubular elements and then by marked nephritic processes in the renal tissue show marked nephritic processes.

The great difference in the length of survival and the functional behavior of the homogenous trans plant as compared with the autogenous transplant in experiments performed in the same manner cannot be attributed simply to the surgical and mechanical factors of the op ration. In the author's opinion, it is due probably to some as yet not understood under lying biological factor in homogenous transplants ton.

Papin M Anuria for Seven Days After Catheteri zation of the Ureters (Anurie sécretoire de sept jours après un cathétérisme des uretères) J d'uroi méd et chir 1925 v 503

In the case of a man 38 years of age a diagnosis of tuberculosis of the left kidney was made and the ureters were catheterized on June 20 1025 The catheterization confirmed the diagnosis The amount of unne collected during a period of two hours was normal but on withdrawal of the catheters urina tion stopp d and in spite of medical treatment no urine was passed for a week. Signs of uramia were noted but just as the author was preparing to per form a nephrostomy the patient passed 200 gm of urine and thereafter he urinated normally. On July 13 Ambard's constant was o 109 On July 16 pyonephrosis of the left kidney developed suddenly and on July 20 Papin was obliged to perform a ne phrectomy The patient recovered and is now well

In discussing this report Citrevassu said that he has long contended that catheterization may irritate the ureters and hidney and considerably impair kidney function and that although it is valuable and necessary in some cases it should be performed only on strict indications.

PASTEAU and Microv reported that they had never seen anuna following catheteraxition of the ureters Michon stated that the patient should be kept in bed after the procedure and that if he had been treating Papins case he would have tried an other catheterization and lavage of the kidney pelvis to overcome the anuna Aupase of Mosava M D

Boehringer k. Ureteral Stone Non Operative In strumental Removal (Ueber Uretersteine un blutige instrumentelle Entiernum,) V rhandl d d utsah Gesellsch f Urol 1925 p 91

When a urcteral stone is not too large its removal or expulsion should be effected if possible through the natural pathway. As operation is not infrequently followed by recurrence or scar stricture causing the development of hydronephrosis every

In fifteen of thirty two cases of ureteral stone seen at the Dresden Johannstadt Municipal Hospital the tone was removed by the natural pass-age. In twelve an operation was performed and in eight the procedure has not yet been decided upon

In seventeen cases from one to three catheters were introduced simultaneously to stretch the ureter catch the stone between the catheters and pull it out. In five cases this procedure resulted in the immediate removal of the stone and in three by its spontaneous descent several hours later. In nine

cases operation was necessary

Since the very strong contraction of the ureteral wall around and in front of the stone constitutes the chief obstacle to the descent of the stone the author has devised a special dilating instrument. This consists in a 5-cm director to be slipped past the stone and a dilator with four steel bands which can be dilated into a basket of about 30 Charnere circum ference. The author has used the instrument twice up to the present time once with immediate success and once with an uncertain result.

Since the conservative management requires great patience on the part of the patient it has been found neces ary to operate more frequently than the author desired. Horryann (7.)

Floris M Obliteration of the Ureter in Gynecological Practice and the Resulting Hydronephrosis (Sull obliterazione dell'uretere in rapporto alla pratica ginecologica e sull'idronefrosi conseculuva) Rri tald di gine

The ureter is frequently injured in generological practice, particularly in Wertheims panhysterectoms for cancer of the cervix. The author reviews the vacuum methods of repair and concludes that the best method is implantation or the ureter into the bl. dder. This is possible however only when the Letter is sectioned close enough to the bladders of that the proximal segment can be implanted without too much stretching.

The next best method and one which is always practicable and quick is closure of the ureter. While this causes hydronephrosis and has been compared in its effect to nephrectom, it brings about slowly and by a purely functional mechanism the result which nephrectomy accomplishes anatomically and at once and the effects on the organism of low uppression of function of an organ are by no means the same as those of its sudden removal. Nephrectomy is absolutely contra indicated unless the other kidney is normal and when a ureter is injured in the course of a gynecological operation the surgeon may not know whether the other kidney is intact or not

If the o her kidney is diseased ligation of the unter does not subject the patient to the same dan ger as nephrectom. In fact it is known that renal function when suppressed by a hydronephrosis may be re-established even in excess when the stagnated unne begins to flow again. The development of a

permanent and irremediable injury of the kidney re quires some time. When the lesson of the epithelium is not too far advanced there may be regeneration of the tubules. In experimental work the epithelium of the uriniferous tubules presented no signs of de generation a month after ligation, at most they showed sumple atrophy from compression.

Amous methods of occlu. ion may be used if they are practiced with due caution. The author prefers trying the ureter with a band of tendon or peritoneum from the lumbar region with peritonization of the stump to prevent adhesions. It is evident however that the method must be adapted to the condition in the civen case. AUDRING MORGING MD

BLADDER URETHRA, AND PENIS

Rejsek J An Unusual Case of Rupture of the Bladder During Cystoradiography (Un cas tare de rupture de la ves ie au cours de cystoradiographie) J durol red et chr 19 2 xx 382

Runture of the bladder is generally caused by external violence sustained when the bladder is full but when there is a pathological change in the bladder walls it may occur from internal pressure Reisek reports a case of the latter type in a 68-year old man with symptoms of intense cystitis Cystoscons performed because a calculus was suspected showed that the capacity of the bladder was only 120 c.cm and revealed hypertrophy of the trabec ulæ and intense acute inflammation of the mucous membrane As no cause for the cystitis was found a mentgenogram was made after the injection of 120 c cm of 30 per cent sodium bromide and 2 per cent The patient immediately experienced inalvoin tense burning pain and a desire to urinate

The roentgenogram showed the bladder surmount ed by a crescent-shaped shadow the concave sud of which was connected by a pedicle with the bladder shadow. The lower concave surface was jagged while the upper convex outline was smooth. This shadow was due evidently to the pervesical sub-pertoneal extravasation of the contrast fluid.

The patient refused operation but the next day his condition was much less favorable and only you can of urine could be obtained on cathetenziation. This finding and the signs of pertoints and duliness on percussion in the hypogastrum showed that a continuous extravasation of urine was taking place into the subperitioned space. A suprapubic incision was therefore made and the urine sponged out. There was no hemorrhage. The opening in the bladder wall could not be found. A Freyer tube was placed in the bladder and the perivesical space and the space of Retzius were drained. Partial suture of the aponeurosis and skin was then done. The patient recovered but died soon afterward of pneumonia.

Undoubtedly in such cases there is a pathological change in the bladder wall. Even slight over-disten tion on injection leads to contraction of the hyper trophied muscle and violent contractions cause an increase in the intravesical pressure and rupture of the bladder as the result of the decrease in the elasticity of the wall. The roentgen picture in the author's case was interesting as the convex line of the crescent showed that the effusion of liquid was extraperationeal. If the rupture had been intraperationeal the fullision would have been diffuse and scarcely visible because of the small amount of fluid. In such a case it is not necessary to lose time looking for the opening in the bladder wall suprapulie cystostomy is sufficient. Auswar of Mozans M D

Bazv P Absence of a Shadow in Roentgenography for Vesical Calculi (Note sur i absence d ombre à la radiographie dans les calculs de la vessie) J d urol méd et chir 1925 xx 369

In his operative notes for November 22 1899 the author finds a note in regard to a case in which a lithotriptor was introduced and a roentgenogram then taken A stone was suggested rather than seen clearly between the blades of the lithotriptor As it so fieth difficult to see the shadow of a vessal calculus Bazy conceived the idea of studying the shadow seen between the blades of the lithotriptor in such cases and upplying the knowledge thus gained to other cases of possible vesscal calculus

He describes three cases in which roentgenograms were taken by competent roentgenologists and pro nounced negative for stone in the bladder but in which he could make out a very faint shadow and his diagnosis of stone was confirmed by operation. In one case the shadow he saw was the same in size as the distance between the blades of the litho triptor when it was introduced. Bazy admits how ever that he may have seen these shadows because he was convinced beforehand of the presence of a stone in the bladder. August of Mozans M D.

Wallace W J Unusual Bladder Obstruction J Urol 1926 zv 325

The author reviews the literature on obstruction of the neck of the bladder and reports an unusual case

His patient was a laborer 6.4) cars of age the father of four grown children. He was admitted to the hos pital complaining of frequency of unnation strang ury and partial incontinence. His history was negative except that he stated that he had had some difficulty with unnation all his life. Dunny the last year the symptoms he complained of at the time of his admittance to the hospital had become steadily had some the symptoms he was prepared for a two stage notsolated on the was prepared for a two stage notsolated one.

The cystotomy was done under local anesthesia When the second stage of the operation was under taken three weeks later no intravesteal bulging or enlargement was found. Instead there was what appeared to be the wall of a ruptured cyst which was believed to have been broken during the operation. The bladder was closed in the usual manner but when healing was complete the difficulty in urina tion returned. Sounds were passed into the bladder.

readily but catheterization of the bladder was fre quently necessary

Cystoscopic examination at this time was unsatis factory. It was necessary to depress the ordiar end of the cystoscope in order to throw the light over the prominence causing the obstruction. A small mass was made out in relation to the left ureteral onfice. As profuse bleeding occurred during the cystoscopic examination at tentative diagnosis of multiple small vesical tumors was made and open exploration of the bladder was recommended.

Operation revealed no tumor but instead a thin fibrous partition or diaphragm extending along the interureteral ridge. This was a firm thin membrane about 1 in in height extending from a point about 1/2 in to the left of the internal sphincter backward just behind the left ureteral orifice and across on the interureteral ridge and terminating just short of the right ureteral orifice. This diaphragm divided the bladder into two portions each of which was capable of holding a considerable amount of urine When the patient strained the partition came forward and practically occluded the internal urethral orifice The septum was grasped with forceps and removed with the electric cauter. The patient made an un eventful recovery and since the operation has had no urmary difficulty at all

The author has been unable to find any similar case reported in the literature. The condition differs from the hourglass bladder and the double bladder into each half of which a ureter empties. CLAUDE D HOLMS M.D.

Scheele k. Granular Cystitis Nodular and Cystic (Die Cystitis granularis nodularis und cystica) Ferhandi d deutsch Gesellsch f Urol 1925 p 255

The author discusses disease of the unnary blad der which is not tuberculous but forms nodules very similar to tubercles. The cystoscopic picture shows numerous nodules which may occur singly in the region of the trigione and ureters or are found closely pressed together or in groups scattered over the entire surface of the bladder. The mucosa in the immediate vicinity, is often slightly reddened a finding which may lead to confusion of the condition with tuberculosis. Beyond this reddened area how ever there is no microscopic evidence of inflamma tion. Some of the nodules are graysib from and transparent others which are lighter colored and sometimes larger have a watery transparent content.

The nodules vary in their elevation sometimes scarcely reaching above the level of the mucous membrane and sometimes being distinctly heri spherical Occasionally the mucous membrane of the bladder particularly in the trigone shows a change toward smoothness so that the markings of the blood vessels are entirely lost and the membrane has an opaque grayish white appearance. The edges of this smooth area show reddening marked injection of the blood vessels and not rarely a few nodules.

The author has named this syndrome cystitis granularis He has found it most frequently asso crated with a chromic cystitis which often had evisted, with remissions, for ten years or longer and had been caused by gonorrhea or a strong genital dischurge or had developed as an obstetrical complication. In any event there had been formerly, a severe infection of the bladder, but at the time of the granular cystitist his was no longer present in an acute stage. The patient complained of itching and stabbing pain in the bladder, tenesmus pain at the time of urination, and urgency of urination. In spite of this the urine was usually clear or only faintly cloudy

Bacteriological examination revealed staphylo cocci or streptococci in fourteen of thirty three cases bacillus coli in eleven, and a mixed infection of bacil his coli and couci in two. The histological appearance of excised nodules justifies the classification of the cases into those of cystitis nodularis and those of cystitis enithelians Cystitis epithelians may be further divided into the so called "enithelial nest of von Brunn" cysts, glandular structures and leu coplakia The conception of the pathologist that the infection and inflammation play an important role in the production of the lymph nodules as well as the epithelial nodules and cysts coincides with the author's clinical experience. In addition to inflam mation of the bladder, chronic pus infections of the pelvis of the kidney and purulent infections of the genitalia play important roles ROSENBURG (Z)

GENITAL ORGANS

Shaw, E C Epidural Anæsthesia for Perineal Prostatectomy An Experimental and Clinical Study with a Report of 100 Consecutive Cases J Urol 1926, xv 210

The anatomical arrangement of the nerves supplying the prostate and contiguous structures is such that all may be blocked by a single injection of angsthetizing solution through the sacral hiatus into the extradural space. Anæsthesia produced by such an injection has been termed by different surgeons epidural 'extradural,' "caudal," and 'sacral' anasthesia.

In the author's cases transsacral injections and local infiltration were not used

Morphine was given alone as a preliminary sedative in seventy three cases and in combination with scopolamine in thirteen cases. Nine of the patients received no preliminary sedative. The injections were made with the patient in the ventral position. In minety cases the anishhetic was procaine, and in ten, novocain suprarenalin. Blood pressure determinations and pulse and respiration counts were made at five minute intervals from the time of the injection of the anishhetic until the operation was completed. The blood pressure proved to be the best indicator of the patient's condition.

It was found that from 15 to 20 cm of the anaesthetic completely filled the extradural space in the sacral canal and yet did not extend upward to come into contact with nerves supplying areas not involved in the operation.

Among the 100 cases the anæsthesia was incomplete in 17 per cent. Whenever there was definite pain the induction of anæsthesia was classified as a failure even if the operation could be completed without the use of a general anæsthetic. General anæsthesia was induced in eleven cases.

The incidence of satisfactory anæsthesia was proportional not to the amount of procaine solution used but to the concentration of the solution. The best results were obtained with from 15 to 20 c cm

of 3 per cent procaine

Extradural anissthesia produces complete relaxa tion of the muscles of the perineum, thereby facilitating the operation. The postoperative complications are definitely less than those following any type of general anisthesia. Postoperative pneumonia and uræmia did not occur. Cardiac decompensation occurred in only one case and in this in stance it was mild and was followed by complete recover.

Epidural anæsthesia should not be used for nervous unco operative patients unless general anæsthesia is definitely contra indicated. In the cases of old debilitated patients with impaired Lidney function, extradural anæsthesia undoubtedly reduces the operative risk. The extradural block need not be supplemented by transsacral injection.

C TRAVERS STEPITA, M D

Keyes E L An Operation for Incontinence of Urine Following Perineal Prostatectomy Surg, Gynec & Obst. 1026, thi, 423

Keyes reports a case of incontinence following perineal prostatectomy one year previously. The patient was a man 70 years of age. On October 16, 1923, the perineum was opened through the usual V shaped incision made in the line of the old scar and the rectum was separated from the urethra. The membranous urethra was opened by mistake but was sutured immediately. As no fibers of the external urethral sphincter could be found, the two leva tor an muscles were sutured to the posterior part of the bulbocavernosus.

Seven weeks after the operation the patient re mained dry all night. When he left the hospital on January 14, 1924 he was dry at night but was unable to control his urine by day except when he was sitting down Eleven months after the operation he was obliged to empty his bladder twice at night but was able to hold the urine half a day. In June, 1925 he reported that he was entirely well, was not obliged to urinate at night, and remained perfectly dry.

ALTON CURSINE M. D.

ALION OCHSNER MID

Gayet, G and Peycelon R Pyelonephritis After Prostatectomy (La pyélonéphrite chez les prosta tectomisés) J d'urol méd et chir, 1925, xx, 371

Ascending infection of the ureters and pelvis in prostatitis is common but little attention has been paid to the course of the lesions after radical operation and the effect of prostatectomy upon their evolution

The authors report five cases which show that pyelonephrits is not overcome by prostate ctomy and after the operation constitutes a danger against which precautions must be taken. In the majority of cases the pyelonephrits which becomes manifest after a prostatectomy is a continuation of a pye lonephrits that existed before but there are cases in which it develops after operation in patients who had clear unne before Of course renal disease preceding prostatectomy also predisposes to this complication.

Fjelonephruts generally develops the third week after prostatectomy and begins when the bypogastric fistula is closed. There is often a light rise in the temperature at this time. The free drainage of the bladder through the suprapulue fistula is replaced by less prefict drainage through the retention cathe ter and the slightest obstruction of the sound with reflux of unique causes an ascending infection.

I velonephritis after prostatictomy may be acute or chronic The progno is is rather grave. The diag nosts is easy. To prevent the development of the condition special care must be taken when the supra pubic fistula is closed. Vesical lavage should be practiced twice a day a low pressure being used in order not to cause a reflux into the ureter Trau matism and infection of the urethra must be avoided A sound must not be introduced through the penis to soon and after its introduction care must be taken to see that it functions perfectly. If the fever and pyuria per ist suprapubic dramage should be reestablished The best treatment for e tablished pyelonephritis is the intravenous injection of urot ropine combined with lavage of the pelvis with r per cent protargol If the kidney increases in size and there is retention of pus nephrotomy may be neces sary In erious cases this operation must not be too long delayed AUDREY C MORGAY M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Harbin M. Non Suppurative Osteomyelitis with the Report of an Unusual Case. J. Bone & Joint Surg., 1926, VIII, 401

In the case reported that of a boy 14 years of age non suppurative sclerosing ostcomyelitis of the os calcis followed trains sustained a year previously when the patient stepped on a rusty nail. Weight bearing was very painful. There was no redness or suppuration. The affected heel was broader than its mate and moderately tender. Its surface tempera ture was slightly increased. Roentgenograms showed destruction throughout the epiphy seal portion of the affected heel, with increased density of the body and probleration on the lateral aspect.

Operation revealed increased vascularity with slight irregularity an increase in the size of the bone thickening and eburnation of the cortex and a de crease in the cancellous bone. There was no evidence of suppuration. The condition seemed to have some relationship to enphysius or estecohondritis.

DANIEL H LEVINTHAL M D

Codman E A Registry of Bone Sarcoma I
Twenty Five Criteria for Establishing the Diag
nosts of Osteogenic Sarcoma II Thirteen
Registered Cases of 'Five-Year Cures Ana
lyzed According to These Criteria Surg Gynec
60bi 19 6 xlli, 381

One of the primity objects of the registry for bone sarcoma is the collection of cases of osteogenetic sarcoma which have been cured for five years without recurrence and the recording of the methods of treatment in such cured cases

In a period of five years there have been collected only seventeen primary malignant bone tumors

which may be considered cured

Through the efforts of the Registry there is now a collection of roo standard benign giant cell tumors too standard osteogenetic sarcomata of the femur 100 osteogenetic sarcomata of other bones and 50 standard cases of Ewing 8 tumor In all, 650 cases have been studied

In the seventeen cured cases of primary malignant bone tumor an amputation was done in all but one In the one exception local exploration was followed by intense irradiation and the use of Coley's serium In eight cases irradiation treatment was given In seven the treatment consisted of amputation alone

In nearly all cases of osteogenetic sarcoma pain precedes the other symptom Pathological fracture is rare whereas in cases of cysts giant cell tumors and carcinoma it is common A history extending over a period of years is unusual Most patients seek advice from one to twelve months after the onset of the condition

The general health just before the onset is good With the exception of cases in which the osteogenetic sarrooma was coincident with Paget's disease there is no record of such a sarrooma in a patient over 50 verts of age. The growth of the tumor is rapid and steady, being noticeable from month to month.

In the examination the soft tissues are not easily moved over the bony tumor. About one half of all osteogenetic sarcomata occur in the femur and one fourth in the tibia. The phalanges carpal, and small er tarsal bones seem to be exempt. Signs of inflam mation are absent or very mild. The neighboring joint is not involved. The tumor is usually large, and involves both sides of the cortex.

In the \(\) ray pucture medullars or subperiosteal involvement is seen. The old shaft remains in its normal position even if it is disintegrated, and is never expanded. The advancing outline of the tumor in spongy bone is irregular and rough. The process is both osteolytic and osteoblastic. The soft parts near the bony site of the tumor are usually invaded.

On microscopic examination mitotic figures are found to be numerous and by perchromatism of nuclei and pleomorphism are prominent. Tumor gaint cells and foreign body giant cells are often present, but their absence does not rule out malignancy. The differentiation between cellular and intercellular substance is not sharp. If complete differentiation is found the tumor is probably beingn. Definite blood vessels with walls and branches like the tungs of a tree are characteristic of osteogenetic sarcoma whereas in beingn giant cell tumors there are only capillaries or sinuses without any walls except the endothelium linning them.

As a rule the pathologist, roentgenologist, and surgeon agree in their independent diagnoses if the tumor is definitely malignant. If one of them is in doubt all of the others are also in doubt or should be. Much depends upon the amount of tissue sent to the pathologist and the completeness of the history and other clinical data.

Thirteen cases cured without recurrence after five years are tabulated. In three, the tibin was involved and in ten the femur. An amputation was done in all except one. In five, the amputation alone must be regarded as responsible for the cure.

WILLIAM A CLARA, M D

Cole W H Chondrodysplasta Surg , Gynec & Obst ,

Ollier who first reported chondrodysplasia, de scribed it as irregular and retarded ossification at the epiphyseal cartilages the cartilage persisting as nodules and masses which take a long time to become transformed into hone. The condition is observed most clearly in the hones of the fingers and toes. The clinical picture is that of arrested development and growth with curving of the long hones deformities of the hands and feet and joint deformities conse

quent upon the bony changes

Following a review of the literature. Cole reports a case of his own The patient was a girl of 11 years whose right leg had been short from birth None of the other members of her family showed a similar de The patient had had the usual diseases of childhood Examination revealed enlargements at both ends of the tibia and the lower end of the femur The knee presented varus angulation slight flexion and external rotation. The right leg was 20 cm shorter than the left Roentgenograms showed a short thick femur with enlargement at the mid shaft and at the lower end In the enlarged portions mot thing and irregular vacuoles were evident. The same sort of enlargements were found at each end of the tibia and in the first and second toe bones and their metatarsals

A biopsy was done on the upper tibial tumor Grossly the mass was cartilaguous with a thin bony shell Sections showed cartilage with small bony islands. As no treatment was indicated an extension

shoe was prescribed

In conclusion Cole states that the term Olliers disease should be confined to cases of cartilaginous dystrophy with or without tumor in which asymmetrical involvement of the body is the outstanding clinical feature. Chondrodysplasia also is usually asymmetrical but as several symmetrical cases are on record the term chrondrodysplasia is of broader application than Olliers disease?

WILLIAM A CLARK, M D

Cumberbatch L P and Robinson C A Non Infective Arthritis in Women Brit M J 1926

The authors report investigations carried out from the standpoint that the elucidation of certain ob scure conditions may be facilitated by considering the results of treatment They discovered that the process producing arthritis may sometimes be brought to an end by heating the pelvic organs by diathermy The local application was first found effective in gonococcal arthritis but later proved beneficial also in other types of arthritis. In the cases of gonococcal infection it was found unneces sary to apply the current to the joints if it was applied to the foci from which the dissemination oc curred-the cervix uters in women and the prostate and seminal vesicles in men. With regard to the other cases it was assumed that the effect of the current upon the arthritis was due to its action upon the cervix or the prostate infected by other organisms However in one series of cases in which it seemed clear that no infection was present-those of women in whom the arthritis developed at the time of the establishment of menstruation or at about the age of the menopause -the arthritis appeared to

be due to the lack or deficiency of the hormones of the ovary or some other pelvic organ

In the cases of virgins the diathermy was applied

by a rectal electrode and in the cases of married

women through the vagina
Two cases are reported one of arthritis occurring
when menstruation began and the other of arthritis
at the time of the menopause. In both of these cases
duthermy proved beneficial and seemed to aid in
the establishment of normal physiological processes
ROBERT CLONEAGA MID

Syme W S and Cappell D F A Case of Chor doma of the Cervical Vertebræ with Involve ment of the Pharynx J Laryngol & Olol 1926 zh 200

The recognition of tumors derived from not cohordal remainst dates from the classical research of Muller Luschka and Virchow Muller was able to show that notochordal remainst frequently persist in the spheno occupital and sacrococygeal regions About fifty sur cases have been reported. Such growths occur most frequently in the spheno occupital and sacrococygeal regions

The authors report the case of a man 59 years old who entered the hospital with a history of shooting pains in the neck of two months duration followed by increasing stiffness and difficulty in swallowing

Breathing and speech were affected

Physical evamination disclosed an extensive smooth swelling in the posterior pharypael wallwhich was more prominent on the left side than the right. At operation the growth was found limited anteriorly and laterally by a capsule Posteriorly it had invaded the body and adjacent portions of the third certical vertebra. It was resected as far as possible and a dathlermy button applied.

Six months later a recurrence was operated upon At this time the growth was ill defined and resection was more difficult. The patient died of septic pneu

The first specimen had a curious semi translucent rather gelatinous appearance and was composed of definite strands. The second specimen was similar and no more degenerated. At autopsy no evidence

of metastatic growth was found

The growth was typical of the class of tumor de scribed as chordoma although it was rather more cellular and more malignant than the majority of such growths The histological appearances were characteristic, and reproduced with considerable fidelity the various stages in the ontogeny of the notochord There are solid cellular areas composed of clearly demarcated epithelial cells similar to the notochord in its second stage of development Later the cells begin to become differentiated and exhibit the characteristic mucinous secretion of notochordal cells with here and there the formation of actual physaliphorous cells as the large highly vacuolated structures have been named. In other places secre tion is poured freely into the intercellular spaces and the appearance of the notochord at a more advanced

stage is reproduced in an exaggerated degree Final ly, just as when the notochord becomes enclosed in the centers of the intervertebral dasks to give rise to the nucleus pulposus the cells become modified to irregular syncytial strands with many large vacuels which contain a substance of unknown nature

The presence of very definite sheaths round the smallest invasive elements of the tumor is a striking example of reversion of the tumor cells to a stage far back not merely in the ontogen of the individual but also in the phylogeny of the vertebrates. In the human subject, the notochord does not undergo the more elaborate differentiation which occurs some of the lower vertebrates and the primary and secondary sheaths are at best only very poorly developed. These sheaths are present in certain lower mammals, e.g. the pig and the mouse, but the greatest development of these structures occurs in exceedingly low vertebrates such as lepidosiren and acan that

The tumors thus appear to reproduce in a very interesting fashion the character of notochordal cells both in architectural arrangement and cytological structure

ROBERT C LOYERGIN, M.D.

Rollier A Pott's Disease J Bone & Joint Surg., 1926

Probably the most famous institution of heliotherapy is that at Leysin Switzerland under the direction of Rollier In this article Rollier reports his observations upon the successful results of helio therapy in Pott's disease.

In addition to the sun treatment immobilization in the horizontal position is maintained until a complete cure of the diseased vertebræ is demonstrated by roentgenograms. Ambulatory treatment is not considered. The horizontal position gives the necessary rest to the spinal column and, by removing the harmful influence of the body weight, prevents fur their ulceration due to compression or deviation of the vertebræ. To obtain the desirable hyperextension of the diseased segment the patient is immobilized by turn in the dorsal and ventral positions.

In the dorsal position the patient with spondy litis is placed upon a hard mattress if he has well developed musculature and no deformity of the spinal column. If he is in poor condition millet seed cushions of uniform consistency are arranged between his body and the mattress. In the cases of children and restless adults a canvas jacket is applied with straps to keep the patient from turning or sitting up in bed. In cases of gibbus formation the spine is hyperextended and millet seed cushions of gradually increasing thickness are placed underneath the kyphosis. The cushions are later replaced by a block of wood which conforms to the shape of the gibbus.

When the pain has ceased the patient is turned to the ventral position and a wedge shaped cushion is placed under the chest. In some cases the shoulders are supported by a canvas strap fastened to the foot of the bed. In this position the back muscles are

developed by movements. In cases of cervical spondylitts the head is held in a celluloid cup modeled on a plaster cast of the back of the head. This cup is fitted with wheeled supports running freely on rails which eliminate traction and permit any degree of extension.

When the disease involves more than one vertebra
the patient is kept in the horizontal position until
the \text{Yay shows the formation of a solid cicatricial
block with astrong bony structure. This may be obtained in from one to two years. The patient is then
gradually permitted to assume the upright position
with the aid of a supporting corset. The corset used
for men is made of perforated celluloid and that for
women of linen re-enforced with steel rods. The
author is opposed to plaster corsets.

When the cure is complete the patient is urged to continue the sun baths at home in order to pre-

ROBERT C LONGERGAN M.D.

Berry J M A Theory as to the Cause of Perthes'
Disease Based on Roentgenological Findings
J Bone & Joint Surg., 19, 6, vin., 333

The theories as to the cause of Perthes' disease are narrowed down to three (1) the infective (2) the traumatic and (3) the consental

Thirteen cases are reported with roentgenograms. The author calls attention to the frequency with which bone changes characteristic of Perthes' disease follow the reduction of congenital dislocation of the hip and speculates as to the relationship between them. He believes the changes are satisfactorily explained by the theory of partially arrested develop-

According to the theory of biogenesis, the embryo, in its development tends to repeat the evolutionary history of its race. The limb structure of human embryos at the end of the second month and the position of the limb in relation to the trunk correspond to that found in adult reptilian development. It is probable therefore that partial arrest of growth at the reptilian stage results in an imperfectly formed shallow acctabulum and a small, malformed head of the femur, and that therefore when rotation of the limb takes place to make the erect attitude possible a dislocation of the head of the femur is very apt to occur

A human hip joint partially arrested in development at the reptilian stage probably has an epiphysis of poor quality. It is easy to believe then that the trauma incident to the reduction of a congenital hip would affect the circulation and would be sufficient to produce the changes of Perthes disease by caus ing the epiphyseal tissue to break down. The author reports one case with characteristic Y ray evidence of the disease following traumatic dislocation of the hip in a boy of o years.

If trauma acting upon defective epiphyseal tissue causes these changes it is logical to expect to find similar changes in defective epiphyseal tissue in other joints. Several such diseases have been observed osteochondratis of the spine tarsal sea phodulus osteochondratis of the second and thard metatarsals and Osgood Schlatters disease of the tibial tubercle. The author has observed also a case in which the \tay disclosed changes similar to those of Legg Caliv. Perthes disease in the epiph yass of the lower end of the radius and another in which it revealed such changes in the similarar bone of the wirst. In a third case similar bony changes were found in prictically every joint in the body.

Robert C Loyffeed, \text{ MD }

Moller P F The Clinical Observations After Heal ing of Calve Perthes Disease Compared with the Final Deformities Left by That Disease and the Bearing of Those Final Deformities on the Ultimate Irognosis Acts radur 1926 v 1

The author has collected seventy four healed cases of Legg Calve Lerthes disease thirty five of which were his own. In fifty eight cases (98 4 per cent) the functional result was good the only clinical defect being a very slight dragging of the leg in about one half of the cases.

In sixteen cases (21 6 per cent) the disease caused considerable restriction of the movement at the hip and a permanent limp beven of the patients in this group have been able to go about freely and continue their usual occupations but the nine others have continual pain in the hip which decreases their ability to work.

The author concludes that the deformities resulting from Legg Calve Perthes disease favor the development of arthritis deformans. He believes that this is true not only of the severe deformities but also of the so called perfectly healed lesions and those which remain latent.

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Cotton F J Disinfection of Septic Joints J Bone & Joint Surg 1926 viii 395

Since 1915 the author has advocated incision irrigation and suture of septic joints. The technique is as follows.

Through a small incision about 's in long extend ing into the synovial pouch a blunt taper pointed irrigator nozzle (like that of a urethral syringe) is inserted Under a head of about 18 inches normal salt solu

tion with 1 15 000 corrosive sublimate is run into the joint until the sac is ballooned when the tip is withdrawn and the joint emptied. This is repeated for fifteen minutes

The synovial capsule is then sutured with No o or reatput which is not exposed within the joint and the fibrous capsule is sutured with a water tight lock stitch. The outer wound is left open. An alcohol dressing and a pillow splint are applied. Motion is begun on the tenth day.

A focus of infection within the joint will defert the disinfection Daviet H I EVINTHAL M D latreille J Resection of the Lower End of the Humerus for a Cunshot Wound Findings Eight Years After the Operation (Assettion disphys) cypphysaire pour traumai me de guerre résultat éloigné datant de 8 ans) Res d'orthop 1925 Yeari 551

The patient whose case is reported in this atticle was a soldier who eight yers ago was subjected to subperiosteal resection of the humerus for a gun shot wound of the elbow. A recent examination by Latrelle showed a slight prominence of the olecranon process but all movements were possible. The joint was not abnormally movable. The X-ray demon strated a tendency on the part of the bone to suden in order to form a new epiphysis. It revealed also the new trochlea and the condyle. The new boards a form shorter than its fellow on the opposite

Tatrelle cells attention to the frequency and the relative completeness of bone regeneration when such resections are made subperiosteally according to the technique of Oilier Nathony F Sava M D

Lyle H H M Skin Plastics in the Treatment of Traumatic Lesions of the Hand and Forearm Ann Surg 1926 lxxxii 537

For the restoration of function following injuries of the hand prompt healing is essential. Healing can be expedited by the use of suitable slin grafts. Skin plastics may be employed singly in combination in series and as primary and secondary closs ures. To obtain a primary permanent closure care ful debridement must be done first and the raw sur face immediately, covered by a suitable flap. Ideal conditions such as a good blood supply and asepsia en necessary. In small defects the Thresch graft can be used in large defects where deeper structures are exposed a pedunoutated flap is necessary.

Secondary closure by a Thiesch graft is done in cases of extensive destruction of the skin and cases of burns and ulcerations. The object of the treat ment is to sterilize the wound and provide an epi dermal covering. It prevents excessive scar formation and decreases the possibility of future contractions.

Skin plastics in series are used when temporary closure is the prime requisite A Thersch graft is first applied and later when the wound is healed the grafts are removed and a pedunculated flap is substituted.

Pann, G Murrin, M D

Mayer L Tendon Transplantations for Division of the Extensor Tendon of the Fingers J Bone & Joint Surg 1926 viii 383

Traumatic division of the extensor tendons in which primary suture is contra indicated by infection or extensive trauma to adjacent tissues can be successfully treated by tendon transplantation per formed under suitable operative conditions. Local anasthesia is used. The extensor communis digito rum tendon of the index finger is the most suitable for transplantation purposes.

The distal end of the severed tendon is exposed through a 11/2 in curved incision. The tendon stump is freed from adhesions and grasped with a tendon forceps A second incision about 3 in long is made over the course of the extensor tendons of the index finger and the extensor communis digitorum tendon to the index finger is severed at the proper level and freed for an adequate distance so that when it is brought to the injured finger it will be as nearly as possible in a straight line A subcutaneous channel is bored from the first incision toward the wrist in the direction of the extensor communis digitorum tendon The channel must be sufficiently wide. The paratenon is well preserved. The tendons are spliced by the end to end method or by the buttonhole overlapping method which is more secure

After the operation the finger is immobilized in the extended position for eight days. The splint is then removed at intervals for gentle active motion The motions are gradually increased both in range and strength As a rule the range of motion is about 75 per cent of the normal within four weeks after the operation DANIEL H LEVINTHAL, M D

Mackinnon A P Plaster Shells in the Treatment of Tuberculosis and Fracture of the Spine Canadian M Ass J 1926 vvi, 399

Mackinnon reports his experience with the plaster shells which have been used for several years by the Massachusetts General Hospital and the Children's Hospital of Boston The shells have proved satis factory after fusion operations on the spine, in cases of recent fracture, and in cases of spinal tuberculosis not operated upon

They extend from just below the head to the mid dle of the calf, and are made in two sections-a pos terior and an anterior half. When the lesion is in the upper dorsal or cervical spine, the plaster is extended to form a head piece The patient is first placed on a table in the prone position with pillows and sand bags arranged to give as much correction of the de formity as possible without causing pain Next a layer of felt is cut and applied to the posterior half of the body in such a way as to conform to its contour closely This is bandaged in place and, by two men it is covered with a plaster bandage applied both lengthwise and across and is molded closely to the figure

The shell is re enforced by metal strips between the knees connecting the body and thigh portion and in the case of a head piece between the body and the head. When the plaster has set the bandages holding the felt are cut and the shell with the adher ing felt is removed to dry. When the splint is dry, the patient is placed in the posterior shell and an anterior section is made similarly

Probably the greatest advantage of this splint is that it permits moving the patient without causing discomfort when heliotherapy is to be given or dress ings are to be changed following operations upon the back With the patient in the posterior half, he may be easily turned after the anterior section has been bandaged to its opponent. The posterior shell may then be removed

The use of the splint in Pott's disease places the diseased part at rest, relieves it from weight bearing, and either prevents deformity or decreases it through the development of compensatory curves above and below the site of the lesion It has been found efficacious in the postoperative management of cases in which the fusion operation of Hibbs or Albee has been performed. The author reports one case in which the shell was used with relief of pain and the re establishment of the normal physiological curves following the manipulation of a recent fracture of ROBERT C LOVERGAN M D the spine

Moorhead J J Arthrotomy for knee Joint Cal culi Ann Surg 19 6 Ixxxiii 392

Cases of loose body in the knee are classed by Moorhead as acute subacute and chronic

Acute cases comprise those of sudden mechanical injury followed by pain swelling due to effusion, and disability One attack predisposes to another, and the condition usually passes on to the subacute and chronic stage. In the initial injury the meniscus is probably fractured or partly detached and in sub sequent injuries it is separated as a loose body

In the acute cases examination usually reveals fracture dislocation of a meniscus, (2) a chip fracture from an articular surface (3) a subpatellar fat pad (4) villous synovitis, and (5) hands or ad

hesions

The subacute cases present the same pathological conditions and also synovial excrescences exostoses. and enchondroma

In the chronic group, a hypertrophic arthritis with irregularities of the joint is found in addition

In the acute cases the treatment indicated is reduction of locking aspiration of the joint effusion, and splinting When the pain subsides the patient may be allowed to walk while still wearing the splint Overbending or rotation of the knee should be forbidden for several months

In the subacute cases stimulation of the weak ened quadriceps by massage and radiant heat is im portant Only rarely is operation indicated in the acute stage

In the chronic cases it is often necessary to remove a torn cartilage This is best done by the Jones method with the knee flexed at a right angle Move ment should be insisted upon every two hours, be ginning immediately after the operation. After the removal of the sutures on the seventh day, the pa tient should begin to walk

When there is doubt as to the exact nature of the condition the incision should be large enough to expose the entire joint surface. Lither the vertical split patella (Jones) incision or the mediolateral in cision will serve well The latter is begun in the mid line proximal to the patella and brought down to within I cm of the upper margin and around the mesial border of the patella to the tibial tubercle The patella and half of its tendon are then reflected outward to the side of the condyle. After either of the incisions mentioned the knee must be flexed acutely for good exposure

A tabular report of forty nine cases as given Thirty six of the patients were males. The voungest patient was o years of age and the oldest 67 years A lateral arthrotomy was done in twelve cases a medi an arthrotomy in twenty three and a mediclateral arthrotomy in fourteen. In all joint stability and flexibility have been improved and in none has there been any postoperative stiffness

WILLIAM A CLARK M D

Ollerenshaw R The Surgical Treatment of Dan

gle Foot Brit M J 1926 1 525

The author has operated upon mneteen cases of dangle foot by the method described by Campbell Through an external incision such as that made for astragalectomy arthrodesis of the midtarsal and subastragaloid joints is effected and the bone thin are trimmed of cartilage and placed in saline solu In young subjects the entire scaphoid is re moved Through a mid posterior incision the tendon of Achilles is next divided as for Z lengthening and the back of the tibia and the upper surface of the os calcis are exposed. A notch is then cut in the os calcis large enough to receive the broader end of the trimmed scaphoid After the scaphoid has been placed in position the smaller pieces of bone are grouped above it and fixed in place by suturing the tendon of Achilles The tendon is lengthened sufficiently to allow a right angled position of the ankle

A plaster cast is applied for six weeks and at the end of that time is replaced for six months by a posterior iron brace preventing plantar flexion

DANIEL H LEVINTHAL M D

FRACTURES AND DISLOCATIONS

Thomson J E M Leverage and Levers in the Re duction of Fractures Nebraska State M J 1926

Thomson's technique for the reduction of frac tures by leverage is as follows

With the nationt under aniesthesia and on a fluoro scopic table a stab incision is made over the fracture and by means of a blunt lever of 14 in round steel the fragments are approximated under the guidance of the fluoroscopic screen. When a good position is obtained the lever is held in place and a cast applied around it. The protruding end may be cut off to prevent its being disturbed in the nursing of the pa After about ten days when sufficient callus has formed to hold the fragments a window is cut in the cast and the lever pulled out

Thomson claims that this procedure is a definite and certain method of reducing fractures and that the introduction of the lever is no more dangerous than the insertion of a large local anasthetic needle or of the chisel for asteotomy

ULTITLE A CLARK M'D.

Ritter H H Lasher W W Wurtzel G L and Goldblatt D Fractures About the Elbow Joint A Review of 150 Cases End Results in

Fifty Two Cases J Am M Ass 1926 lxxxvi This article is a review of 150 cases of fractures

about the elbow and a report of the end results in fifty two cases The fractures were supracondular in 41 per cent

In 26 per cent they occurred in the internal condyle in 12 per cent in the external condyle in 11 per cent in the end of the radius and in 4 per cent in the elecranon Eighty two per cent of the patients were under 15 years of age. The musculospiral nerve was injured in three cases and the ulnar perve in

The authors use the Jones method of reduction as a routine. The elbow is flexed until the radial pulse is obliterated and then released just enough to let the pulse come through. In order to insure res toration of the normal carrying angle the little finger should be on a sagittal plane with the greater tuber osity of the humerus An esthesia is necessary for the reduction unless the case is seen within a few hours after the injury Flexion is maintained by a figure of 8 bandage. No cast is applied. After two days guarded motion is begun and after ten days the bandage is removed and only a sling is used The end results showed normal function and

appearance in 86 4 per cent of the fifty two cases traced Ashburst obtained good results in Sr per cent and Cutler and Cave in 80 per cent

I our results were due to (t) the filling up of the coronoid and radial fosse with callus (2) bone block (3) failure to maintain the carrying angle or (4)

WILLIAM A CLARK WD myositis ossificans

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD, TRANSFUSION

Emile Weil and Stieffel A Case of Marked Hæmophila in the Course of Lithiasic Icterus, Trans fusions, Operation Followed by Recovery (Sur uncas de grande hémophile au course d'unictère lithi asque, transfusions, opération et guérison) Bull et mêm Soc mêd d'hôp de Par 19 6 xln 55

The authors report the case of a 27 year old wom an with infectious bihary lithiasis causing a febrile painful and intense jaundice, bleeding from the nose and guns, large exchymoses on the thighs following subcutaneous injections, and numerous purpuric spots due to scratching. The patient's history and that of her family were negative as regards bleeding. The venous blood was unclotted and the yellow plasma still fluid after three days. The coagulation time was normal (two to four minutes) but the ear prick bled without stopping for one day. As in amophilia, the addition of one drop of fresh human serum to the patient's blood in titro caused coagula tion. The red cell count was 1900,000 and the

hæmoglobin value was 45 per cent

Two hours after a 300 c cm transfusion, the blood clotted in fifteen minutes and the retraction of the clot was better. Three days later, the bleed ing time was fourteen minutes and the coagulation time one hour and seventeen minutes. Six days later the red blood cells numbered 2,300 000 but the hæmoglobin was still 45 per cent. Nine days later, a second transfusion in which 350 c cm was given, caused a febrile reaction. The next day the bleeding time was four or five minutes.

The marked improvement in the blood lasted for only a few hours after each transfusion, but some permanent benefit resulted as the clotting time ulti-mately fell from three days to one hour, the red blood cells increased from 1,900,000 to 4,000,000, and the hæmoglobin increased from 45 to 60 per cent

The infection and the fever gradually decreased Following a third transfusion, in which 250 c cm was given incision and drainage of the bile passages with the removal of twelve stones from the gall bladder and one large stone from the common duct was done No hamorrhage occurred. The patient made a rapid recovery, with the return of the blood to normal After the operation the bleeding time was six minutes clotting without retraction occurred in five minutes, the red blood cells numbered 4 800 000, the white blood cells numbered 8 000, and the hæmoglobin increased to 90 per cent There was abundant drainage of bile. The jaundice cleared up the stools became normal, and the patient's weight increased

Although hæmorrhage occurs in acute hepatic in sufficiency, the authors had never previously noted

a delay of coagulation for as long as three days except in the experimental hiridin blood of rabbits. The lithiasic uterus and the biliary infection in the case reported caused an acute symptomatic, not a per manent himmonilia.

In another case, that of a patient with tubercu losis and fatty cirrhosis of the liver, the authors found a coagulation time of twelve hours

WALTER C BURET M D

LYMPH VESSELS AND GLANDS

Jacobson, J The Treatment of Tuberculous Lymphadentitis by Clinnamic Benzyl Ether (L. éther benzyl cannamque dans le traitement des adénites tuberculeuses) Buill et mém Soc méd d hop de Par 1023 xll 1320

The favorable results obtained with cinnamic benzyl ether in the treatment of tuberculous of the skin and mucous membranes led the author to use it in fourteen cases of tuberculous lymphadents. The technique was the same as that employed for lupus by Dairer (Comptes rendus de la Société de der wateloger, Expurary, o. 1022)

Except in the case of one patient who abandoned treatment after the first series of injections, a cure was obtained in an average of three months. In four cases, puncture or filhform drainage was necessary. The progress of the cure is indicated by a reduction in the periglandular induration. Ultimately, the glands soften and discharge or resorption occurs. The final result is a small fibrous nodule.

Cases of varying degrees of seventy were treated In some of them the masses attained the size of a small orange The patient who abandoned treatment showed considerable improvement after the

first series of injections

The treatment described is suggested as a valuable adjunct to radiotherapy and surgery. It facilitates surgery by reducing the periadentis and mobilizing the glands. It everts a favorable influence also on associated lesions wherever located. No general reactions have been observed following its use

ALBERT F DE GROAT M D

Rolleston Sir H, Woolbridge G H Fletcher H M Pugh L and Others Hodgkin s Disease in Man and Animals Proc Roy Soc Med Lond 1926 xix Sect Med & Compar Med, 39

ROLLESTON The cause of Hodgkins lympho granuloma is unknown The histological picture de scribed by Andrewes and Reed is characteristic. The condition has been regarded as (1) a neoplasm (2) a transitional process between a neoplasm and an inflammatory formation, and (3) an infective granuloma due to an unknown virus.

Lymphadenoma occurs usually first in the cervical glands. It very rarely attacks the lymphoid tissue of the alimentary canal. There is no satisfactory evidence that Hodglan is disease has ever been trans mitted to animals. The differentiation between this condition and endothelioma is difficult. Early tuber culous adentits without necrosis or caseation may simulate it.

WOOLDERIDGE Hodgkin's disease is rare in all species of animals except the dog It appears to be an infective process rather than a neoplasm. The causal organism whatever it is has a low writence All lymphatic tissue except that in the bowel is enlarged. The course of the disease seldom exceeds two or three months. The characteristic histological preture in man has not been observed in dogs. There is no satisfactory, treatment. The best results are obtained with arsence and mercury.

FLETCHER Hodgkin's disease appears to be due to infection perhaps by a spirochete as it is accompanied by fever and responds to arsenic I runitus and purpura are occasional skin manifestations. The fever is usually very irregular and occasionally of the relapsing type. The results of \(\sigma \) ray and ar senical treatment are most striking but as yet no permanent cure has been obtained

Pugit Hodgkin's disease is most frequently confused with one of the leukemias tuberculosis or malignint disease. No case in an animal has resembled the condition in man as described by An

drewes and keed
STEMARY Attempts to cause Hodgkin's disease
in monkeys have failed. In the later stages the con
ition resembles a neoplasm. It is difficult to differentiate between Hodgkin's disease and tuberculosis even when the glands are sectioned. The blood
chringes in Jimphadenomy are so slight or so very
variable that they are of practically no value in the
diagnosis.

THURSFIELD The disease called lymphadenoma in animals differs from the lymphadenoma occurring in man Cyril J Glasfel M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE. POSTOPERATIVE TREATMENT

Surgery in the Presence of Diabetes Polmer I. I Mellitus \orthaest Med 1026 xxv. 106

The mortality of operations upon patients with diabetes mellitus has been decreased by advances in the chemistry of this disease and in the science of nutrition, better cooperation between surgions and internists better surgical technique, the use of less barmful angesthetics earlier operation, and better hospital facilities

When the taking of liquids by mouth is prevented for a considerable time by the nature of the opera tion or by vomiting it may be necessary to give glucose by rectum. When the surgical procedure or diarrhea prevents the rectal administration of glu cose its intravenous administration must be resorted to When nutrition can be given by mouth liberal amounts of orange nine and oatmeal gruel will usually supply sufficient glucose for buffer pur

poses

When it is possible to devote a day or two to the preparation of the diabetic patient for operation glycæmia should be reduced to at least 200 mgm per 100 c cm and the alkali reserve raised to at least fifty volumes per cent Particularly in the presence of infection and in the cases of elderly patients care must be taken not to restrict the carbohydrate in take to such an extent that the glycogen stores will be depleted In such cases more insulin should be given to remove ketone bodies lower the glucose content of the blood and increase the glycogen reserve The protein intake should not be less than usual but the fat intake should be reduced to a very small amount

Chloroform should never be used Ether also should be avoided if possible Nitrous oxide and oxygen alone or combined with local anæsthesia in duced by infiltration or preferably by nerve blocking is very satisfactory Spinal anaesthesia is probably the safest from the standpoint of the diabetes Ethy lene also is entirely satisfactory

CARL R STEINLE M D

Bigger I A Hypertonic Sodium Chloride Solu tion Intravenously in the Treatment of Exten sive Superficial Burns South M J 19 6 xiv 30

The salient symptoms associated with super ficial burns are explained by the presence of a toxin in the blood In severe burns concentration of the blood has been demonstrated in some instances and it is probable that such a change occurs in the ma jority of cases of extensive lesions

Robertson and Boyd were able to demonstrate primary and secondary proteoses in burned animals

When certain protein derivatives are injected intra venously, the concentration of the blood is in It therefore seems possible that the in creased concentration found in severe burns is the result of the absorption of protein decomposition products due to the injury of the tissues

Cannon considers low blood pressure the important factor in shock and believes that this is the re sult of a decrease in the blood volume. If this theory is correct a prompt increase in the volume of the

blood is of importance

Hypertonic sodium chloride solution given intra renously increases the blood volume promptly and for a considerable period of time author believes that its use is rational in the treat ment of severe burns. It is proposed not as a substitute for debridement or the forcing of fluids, but to prepare the patient for debridement

CYRIL I GLASPEL M D

Smith F A Rational Management of Skin Grafts Sure Gance & Obst. 1026 xlu 556

The best sources of skin for grafting are the upper arm of the male and the thigh of the female. When soft hairless skin is required the graft should be taken from the inner aspect of the limbs. There is no special advantage in choosing skin from an area of tension such as the deltoid, nor in obtaining it from

the prepuce or scrotum

It is obvious that a graft is parasitic and during the first two or three days after its transplantation it must be maintained by the absorption of tissue nuces or lymph Hence, its intercellular spaces must be open to the circulation of lymph in order that nourishment may be carried to its cellular elements It must be cut accurately to size maintained at normal tension accurately fixed by carefully placed sutures and accurately approximated to its base by a proper even pressure. The skin must be free from fat In the use of various pressures in the applica tion of skin grafts Smith has found that for full thickness grafts a pressure of 30 mm. Hg is very satisfactory

This same care is not vital to the success of split skin grafts A simple technique consists in smearing the source of the graft with a thin layer of vaseline. which materially facilitates the cutting of the piece, arranging the skin, raw surface outward, on dental impression compound molded to the part to be cov ered and applying this with a firm bandage without measuring the pressure

The grafted part should be immobilized for several days Histological descriptions of contracted skin skin under normal tension, and skin on the second, fifth tenth, and twentieth days after graft ing are given CARL R STEINER M D

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ANÆSTHESIA

Meeker W R Recent Developments in the Tech nique of Regional Anæsthesia Chin Med 1926 xxxiii 225

Local anaesthetic procedures may be divided into terminal unfiltration field block and nerve block. Field block is especially applicable to the removal of superficial benign tumors and for anaesthesia of the fingers toes and metacarpial and metatarsias bones Circular field block of the terminal rectum affords satisfactory anaesthesia of hamorrhoudectomy. Field block is satisfactory also in the repair of the average hermin.

Paravertebral block of the spinal nerves is of great est value when it is applied to cervical and sacral nerves Block of the cervical pleus by the lateral oblique route affords adequate anaesthesia for opera tions on the neck such as thyroidectomy laryngec tomy and the removal of thyroglossal duct cysts and diverticula of the esophagus

In block of the sacral nerves a low sacral injection combined with transacratal injection of the later all foramina affords most constant anæsthesia. By this method the entire pelve floor and the viscas are anæsthetized so that the Kraske operation per neorrhaphy or penneal prostatectomy may be per formed paniessly. With the addition of suprapubic field block resection of the bladder and suprapubic mostatectomy may be done.

Block of the sphanchnic nerves does not afford sufficient ansisthesia for the performance of abdominal operations. If for any reason general anarsthesia is not to be employed these operations are best performed with the use of terminal infil tration methods combined with deep preliminary narcosis and followed by very gentle postoperative management.

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Wetterstrand G A Roentgen Therapy in Surgical Tuberculosis Acta radiol , 10 , 11, 528

The author gives an account of the experiments he has carried out and the results he has obtained in the roentgen treatment of surgical tuberculosis He believes that this treatment is of the same value as other procedures now in use provided the proper precautions are taken and has the added advantage that it causes the patient less expense. The best results are given by small do-es-about one third the erythema do-e, with an upward allowance of from 20 to 50 per cent

Most of the cases reviewed were calles of tubercu lous lymphomata The stage of the condition has little influence upon the results, but the spreading and fistulous forms require more prolonged treatment than others Local irritation must be avoided recurrence or infection of other glands occurred in 4

per cent of the cases, not dangerous skin changes in 12 per cent and telangiectases in 3 per cent There was no necrosis

The treatment proved extremely effective in tuberculous peritonitis without pulmonary or intestinal complications Of twenty four such cases, fifteen remained cured after from two to five years and tem porary improvement was obtained in five

Tuberculosis of the female genital organs reacts extremely well to roentgen therapy In the author's opinion roentgen irradiation is the best treatment for such cases Of ten patients whose condition seemed hopeless when the treatment was begun four are well three have been free from symptoms for two years and two who are still under freatment have been benefited. One cannot be traced Cases in which operation is performed should be given post operative roentgen irradiation.

The author believes that in the treatment of tuber culo-is of the male genital organs too little attention has been paid to roentgen therapy. His nine patients with this condition have been restored to health

Cases of fistulæ after nephrectomy puncture canals infected with tuberculosis, and secondary foci of the di ease in the soft tissues have a good prognosis

Roentgen irradiation is gaining favor also in the treatment of tuberculo-is of the bones and joints

Bardeen C.R. The Biological Effects of Roentgen and Gamma Rays. Wisconsin M J, 1976, xxv 215

Investigations based on radio-activity have led to profound changes in some of the more fundamental theories of physics and chemistry. These are discussed at some length to correlate them as far as possible with the very imperfectly understood biological effects. They arise from the radiant energy

ab-orbed by the tissues The roentgen and gamma rays absorbed affect primarily the electrons of various atoms whose period of revolution about the central nucleus corresponds in frequency to the wave frequency of the radiant rays To these high speed electrons within the tissues are attributed most of the direct biological effects of radiation. They may interfere with the electrostatic tension of the colloid particles of the cell or alter the molecular structure of some of the constituents of the cell

The part of the cell most susceptible to radiation is the nucleus. Brief mention is made of some of the experimental work by which this fact has been estab lished In general it has been found that the tissues most sensitive are those which contain a relatively large amount of chromatin are in active cell division. or have great regenerative power. The cells of a raved tasue are unequally affected Regeneration takes place from the uninjured or less injured cells. the cells at rest at the time of the exposure Recov ery to possible only when the regenerative powers of a tissue equal or exceed the susceptibility to injury, when there is a low injury regeneration ratio therapeutic value of the roentgen rays and gamma rays depends upon the fact that pathological tissues may have a higher injury regeneration ratio than

Reference is made to the relative sensitivity of various normal tissues reported by Hirsch and to the relative radio-sensibility of pathological tissues as given by Ewing The latency in tissue effects following radiation is commented on, and various direct and indirect factors having a bearing thereon are mentioned Hirsch's table showing the latency period of pathological tissues is included

normal tissues

Favorable effects after suitable irradiation may result from direct destruction of tissue cells or from indirect local or systemic reactions such as lympho cytosis or localized fibrosis Toxic substances may be produced. If these are not in excess they may stimulate chemical and morphogenic defense reac tions which favor normal as opposed to pathological tissues. If in excess they may cause severe con stitutional disturbances ADOLPH HARTUNG M.D.

RADIUM

McHutchison J P and Brown W H A New Development in Radium Therapy Larcet 1926, ccx, 735

The authors describe a method they devised to employ the active deposit of slow change viz Radi um D and E This deposit is found in all exhausted emanation (radon) tubes that have been prepared and remain unused in radon tubing institutes. The beta and gamma rays from Radium D and E have a

penetration sufficient to irradiate 3 mm of tissue With this penetration such lesions as capillary and superficial cavernous nævi and lupus erythematosus can be treated

Six cases are reported with a description of the technique. The results were very encouraging. The active deposit is placed upon silver or nickel

plates of various sizes and from 0 2 to 0 4 mm in

The problem of measuring the intensity of various applicators was solved in part by comparing with uranium orde films by means of a beta ray electroscope. Applicators producing an expthema in from three to seventeen days were made. From the view point of the time of exposure those producing an expthema in a few days are superior. Blistering and crusting are to be avoided.

The applicators are placed in contact with the lesion for the number of davs necessary to produce an erythema. To protect the applicator from injury by mosture and friction both of which remove the mystible active deposit a layer of crepe de chine is placed between the applicator and the skin. The half decay neriod of the applicators is sixten years.

A J LARKIN MD

MISCELLANEOUS

Reyn A The Efficacy of Various Sources of Light in General Light Bath Treatment 1cts radiol

The author first briefly sketches the history of light treatment in general and reviews some of the

investigations made especially by Finsen and his pupils with regard to the power of light from different sources to penetrate living tissues. He discusses various conditions and problems connected with the treatment of surgical tuberculosis with light and points out that none of the theories so far advanced to account for the curative effect of light in this affection has proved entirely satisfactory. It still remains to be determined which rays of light are chieft, responsible for the cure

Clinical results indicate that the chemical rays and among these notably the more long waved ultraviolet violet and blue rays—are of particular importance and that the luminous red rays also play a

The author concludes that sunlight is by far the best therapeutic light and that sanatora for treatment of surgical tuberculosis should be located either in Alpine country or by the sea where the sun light contains all of the beneficial raws in a high degree of intensity. Sunlight is beneficial only when the continual national means a bundant quantity of chemical light. In northern Lurope where most of the chemical rays of the sun are absorbed by the atmosphere during a considerable part of the year recourse must be had to artificial light.

Various sources of artificial light are mentioned. The best is the cathon are light. The lamps must be specially constructed most of those found on the market do not meet the requirements. Only direct current can be used because it is the light from the crater that is most important in the treatment of these cases.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Sequiera, J. H., Cheatle, G. L. Handley, W. S. Cope, Z., and Shaw, E. H. Precancerous, States, Proc. Roy, Soc. Med. Lond. 19, 6, xix. Sect. Surg. 1.

SEQUIERA The skin affections which predispose to cancer are (1) congenital anomalies such as pig mented and warty moles and verodermia pigmen tosa (2) semle changes such as semle keratom (3) local irritation due to trauma or exposure to light, the Vrays, heat, and chemicals (4) scars from lupus lues and burns, (5) chronic dermatoses (6) Bowen's dermatosis and (7) Paget's disease mammary and extramammars.

CHEATLE Epithelial hyperplasia of the breast is either directly or indirectly concerned in the car cunoma problem but it is impossible to describe a state of dysgenetic epithelial hyperplasia that inevi

tably ends in carcinoma

HANDLEY Carcinoma is always preceded by long continued chronic inflammatory changes in the subjacent connective tissue. The lapse of time between the onset of these changes and the development of cancer may be as long as thirty years Breast cancer often follows chronic mastitis and both conditions are found most frequently in the upper and outer quadrant of the breast Chronic lymphatic ob struction is a frequent and perhaps constant factor in the etiology of cancer. It is probable that the rise in the lymph pressure leads to overnutrition and consequent proliferation of the connective tissue Fpithelial cells grow and develop normally only when they are associated in their growth with connective tissue cells

The three most important factors in the causation of cancer are (1) chronic irritation bacterial ther mal or chemical (2) lymphatic obstruction and (3)

an acid reaction of the tissues

COPP. The term 'precancerous can be applied only to clinical conditions recognized by the naked eye. In the tongue there are three conditions of a suspicious nature (1) chronic superficial glossitis with associated leucoplakia (2) papilloma and (3) dental ulcurs at the margin of the tongue

In the esophagus there are no recognizable pre

cancerous conditions

It is very probable that cancer can and occasional ly does become engrafted on simple ulcer of the stomach but this occurs much less frequently than is generally believed

Cancer of the small bowel is very rare, but every papilloma of the small bowel must be regarded as a precancerous condution In the large bowel cancer rarely follows ulcerative processes There is little

evidence to prove that cancer of the colon is caused by the stagnation of bowel contents due to kinks

SHAW The two chief precancerous conditions are chronic inflammation and simple new growths. All specimens of carcinoma of the breast show inflam matory changes but it appears quite evident that the inflammation preceded the new growth. A breast affected with chronic inflammation is in a precan cerous state. Many papillomata of the skin, mouth and bowel are also precancerous conditions.

CARIL I GLASPEL M D

Morton J J Cancer of the Skin 4rch Surg 1926

The three main types of skin cancers are the basal cell and squamous cell lesions and næviod and mela notic growths. The last named resemble the squam ous cell type but metastasize quickly and are rapidly fatal.

Morton discusses at length only the basal cell and squamous cell types The histories of twenty nine cases are given and illustrated by photographs or drawings

BASAL CELL EPITHELIOMA

Basal cell epithelioma is a lesion of advanced life the average age at which it appears being 55 years. Males are far more frequently affected than females and blondes more frequently than brunettes Senide keratoses the most common precancerous condition result in basal cell growths. Persons ex posed to sunlight and the weather are predisposed Basal cell cancer never arises in a normal skin being always preceded by a dermatosis. One of its common antecedents is the seborrheice wart.

Although this type of cancer may occur on the extremities and trunk its most frequent site is above

the clavicle

Tathologically there are four types of basal cell cancer—the flat the nodular, the ulcerative and the annular All are characterized by induration and hardness of the edges and the presence of the translucent pearly white nodules which are pathog nomonic of rodent ulcers. The nodular types even tually ulcerate forming yellowish crusts with dry scales. The annular type which is rare is char acterized by a whitish yellow healed central area surrounded by a raised pearly edged growth or scabbed ulceration.

B sal cell cancers are often multiple and their growth under the skin is much more extensive than is indicated by their surface appearance. On cross section the basal cell cancer is characterized by a smooth surface limited invision of the subcutane ous tissues and alveoli much smaller than those of souamous cell growths.

Micro copically the cells of the basal cell cancer have all the staining qualities of the basal layer of the Mitotic figures are easily found. After the corium is invaded a great variety of forms may be assumed in the arrangement of the cells-solid masses branching out growths hollow columns etc

The course of the basal cell cancer is chronic Often fifteen years may elapse before it attains the size of a quarter There is a possibility that this type of cancer may be changed to a more virulent type and that a squamous cell growth may result if inade quate or no treatment is given. While basal cell cancer is relatively benign it kills by eroding the tissues and producing infection and hamorrhage In the diagnosis it must be differentiated from squamous cell cancer syphilis lupus vulgaris and lupus erythematosus blastomyco is granuloma and certain skin inflammations

It is the basal cell cancer which has established the reputation of the cancer quacks. Cures have been claimed for a great variety of methods early cases Morton regards irradiation with radium or the X rays as the method of choice. He has found however that a second or third course of treatment may be necessary before a complete cure is obtained Growths which do not yield to two or three courses should be subjected to surgery Advantages of knife incision over radiation therapy are that it removes the affected tissue completely in the minimal amount of time and allows an accurate diagnosis. Attention is called all o to Clark's method of desiccation by monopolar endothermy a method which is a distinct advance as it can be used on the evelid and inner canthus

TRANSITIONAL TYPES

Following his discussion of basal cell cancer the author reports two cases which he believes may represent transitional forms between the basal cell and squamous cell cancer

SOUAMOUS CELL CANCER

Except for certain forms which arise from the scars of lupus vulgaris squamous cell cancer like basal cell cancer is also a lesion of advanced life It is more common than the basal cell cancer and o curs more frequently in men than women No racial immunity to this cancer has been noted

Although the etiological agent is not known it is evident that injuries mechanical irritation derma toses scars ulcers and the action of certain chemi cals and light rays play an important rôle in the causation of the lesion

Squamous cell cancer may occur anywhere on the surface of the body but its most common site is the lower lip. The two principal varieties are the papil lary and the deeply infiltrating ulcerative papillary form rapidly produces a projecting nodule of considerable size which ulcerates early The ulcer becomes covered with a dry crust which drops off now and then and is reformed. The edges of the ulcer are irregular and indurated and if the crust is removed the translucent grayish pink nodules of malignant tissue can be seen. The infiltrating type forms no external nodule to speak of producing simply an abraded surface with jagged solid outlines and very extensive deep induration. The ulcer may have a very innocent appearance

Squamous cell cancer may result from occupa tional irritations causing warts patches of hyper

keratosis and skin atrophy

Microscopic study shows the pink staining angu lar cells in varying degrees of cornification forming more or less complete epithelial pearls. The more rapid the growth of the squamous cells the less the chance of differentiation into the cornified type Broders has found a basis for prognosis by compar ing the degree of reversion to type with the clinical course of the disease. The greater the degree of corns fication the less virulent the lesion

The squamous cell cancer produces metastases while the basal cell cancer does not Unfortunately there is no symptom which sends the patient to the physician early The differential diagnosis most essential to make is between cancer and syphilis If there is no response to antisyphilis drugs within ten days the lesion must be considered malignant

As squamous cell cancer metastasizes early the surgeon should remove the primary lesion with a wide margin and the lymphatic glands draining the area in one block

Radiotherapists agree almost unanimously that squamous cell cancer is much more resistant to radiation than basal cell cancer This should dispose of the theory of selective destructive action on the cancer cells Injury to and fibrosis of the lymphatic channels has no demonstration in fact. Ouick says

By external radiation alone we do not feel we have ever been able to destroy completely fully developed epidermoid carcinoma in the cervical nodes

In the author's opinion a combination of surgery and radiotherapy is desirable in every case treatment of choice is removal of the primary growth by electrocoagulation or cautery dissection and the use of emanation seeds in rith Whenever possible all malignant tissue should be removed

Squamous cell cancer of the scalp and forehead does not require removal of the regional glands but in cancer of the face cheek, eyelid chin or nose the glands should be removed with the lesion

PAUL W SWEET M D

Nichols J H Goodhue F W Champion M E Bigelow G H and Lombard H L Cancer in Massachusetts Boston M & S J 1926 exciv 388

Cancer is increasing but there are indications that the peak of the curve may be nearly reached. In the United States Massachusetts has the highest death rate from cancer

The cancer rate increases with the increase in the density of the population up to a population of about 4 000 per square mile and then remains nearly stationary

The average length of life of persons v ho are operated upon for cancer and ultimately de from the condition is twenty two and eight tenths months, while that of persons who die from the condition without operative treatment is twenty months. The average duration of the condition from its onset to the time of operation is ten and three tenths months The average patient seeks the physician's advice eight months after first noticing the symptoms

As about one fourth of cancer deaths occur in hospitals there is need for additional beds for patients SAMUEL KAHN M D

suffering with cancer

Crile G W The Contact of the Surgeon with the Problem of Cancer J Michigan State M Ass 1926 XXV, 124.

Precancerous lesions should be removed com pletely when possible or given no treatment at all

For established cases of capter Crile advocates radical operation if the condition is operable and palliative surgery or radiation or both if it is inoper able The treatment indicated for cancers of the various organs and tissues he summarizes as fol-

1 Skin radiation except in cases of pigmented

moles, which should be excised

Buccal surfaces mucous membranes of the mouth, excision, early cancer of the tongue, electric coagulation or the use of the actual cautery, early cancer of the lip, radium late cancer of the tongue or lip excision plus block dissection of the glands

Larynx intrinsic carcinoma, laryngectomy plus postoperative radiation extrinsic carcinoma block dissection plus radiation if possible, tracheot omy plus radiation if inoperable

Thyroid thyroidectomy plus radiation if operable, decompression plus radiation if inoperable, prevention by excision of fetal adenomata

Esophagus gastrostomy for feeding plus radiation.

6 Breast radical operation The value of radia tion is still subjudice

7 Stomach resection if possible gastro-enteros-

tomy if inoperable 8 Intestines sigmoid and rectum, colostomy plus

radical operation if operable, colostomy plus radia tion if inoperable

9 Uterus for the fundus, radical operation for the cervix, radiation.

10 Genito-urinary organs operation plus post operative radiation in selected cases

SHIRLEY C LYONS M D

DUCTLESS GLANDS

Kuestner H Investigations of the Changes in Internal Secretion After Extirpation of the Uterus Operative Castration and Roentgen Castration and in the \ormal Climacterium (Unter suchungen neber die innersekretorischen Verzenderungen nach Uteru extirpation operativer Kastration, Poentgenkastration und im normalen Klimaktenum) Moratiche f G bartih u Gyruck 1923 hrs. 284.

The author investigated the changes in internal secretion after operative removal of the uterus operative castration, and roentgen castration and in the normal chmacterium to determine whether the menstrual duturbances of the menopaule which are manifested chiefly by increased or irregular men struction are best treated by operative removal of the uterus or \ ray treatment of the ovaries

The function of the glands of internal secretion was tested by the Abderhalden method as simplified by Luttge and you Mertz By means of this test only a pathological change in the internal secretion of a gland b shown Normal function and complete absence of function cannot be demonstrated. The procedure consists in mixing the patient's serum with a previously prepared extract of the organ and main taining the mixture at a temperature of 37 degrees for twenty four hours. When changes have occurred in the gland, substances resembling amino acids are formed These are extracted with 96 per cent alcohol and can be demon_trated by the ninhydrin reaction

It was found that the serum of women in the normal climacterium and those who had been operatively castrated had no reaction to ovarian substance The results were similar in the twenty-one cases in which only the uterus had been removed. Following castration with the X-ray the serum of twenty-one of twenty three women showed a positive Luttge von Mertz reaction to o aman substance

As the Luttge von Mertz reaction to ovarian tissue was found still positive even four years after the Y ray exposure, it probably indicates a biological change such as is associated only with very severe disturbances

Since roentgen castration not only destroys the normal function of the ovary but replaces it by what is apparently a pathological function, it is evident that great care is neces, ary in judging the indications for roentgen treatment and that extirpation of the uterus is preferable unless some other ailment such as cardiac failure struma, or diabetes renders opera tion particularly dangerous SCHUMACHER (G)

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EDITOR'S COMMENT

THE tremendous impetus that has been given to the study of the physiology and pathology of the liver and bile passages as a result of the introduction of Graham and Cole s method of gall bladder visualization is reflected in a constantly increasing number of papers on this subsect emanating from surgical clinics in widely separated centers Rubenstone and Tuft's dis cussion of the comparative value of functional liver tests (p 200) and Graham Lyon, Zink, and George's symposium on the diagnosis of gall bladder disease (p 210) are some of the recent contributions that are helping to make the diag nosis of disease of the liver and bile passages more certain and accurate

Some of the difficulties of secondary operations on the gall bladder and the bile passages are discussed in Payr's interesting paper on ex posure of the common duct in operations for re currence of stone after cholecystectomy (p. 212) The use of a catheter and syringe is again recom mended as a method of disengaging stones high up or low down in the ducts

The possibility of anastomosing a biliary fistula with the stomach or duodenum as emphasized by Babcock (p. 211) and the ease with which deep harmorrhage may be controlled by upward pressure on the hepatoduodenal ligament with the index tinger in the foramen of Winslow as has been suggested by Gibson and other sur geons should be remembered in connection with Payr's suggestions for overcoming the technical difficulties of the operation Gutierrez s account of the implantation of a pancreatic fistula into the stomach (D 214) indicates the possibility of successfully treating pancreatic fistulæ as well as biliary fistulæ by this method

Fuch s studies of the inner topography of the kidney (p 2 3) emphasizes the fact that just before they enter the parenchyma large blood vessels from the ventral group pass in the interstices between the calvees to join the dorsal group, and that when the incision suggested by Zondek is made to deliver a large pelvic stone these large vessels may be divided Bouchard and Laquiere's examination of a patient nineteen years after ureterorrhaphy emphasizes the im portance of the peristaltic action of the ureter in the normal evacuation of the renal pelvis. In this case, although the ureter had been sutured without resulting stricture formation, the pelvis and upper ureter were dilated and filled with turbid stagnant urine

Butler and Delprat's review of ninety three cases of intestinal obstruction from the San Francisco Emergency Hospital (p ob), Weeks and Brooks recommendation as to the treatment of acute peritonitis (p 201), and Delore, Creyssel and De Rougemont's discussion of the care of patients before and after operations on the stomach (p. 205) are of particular interest because of the emphasis placed on non-operative meas ures-fluid administration, complete rest for the gastro intestinal tract and gastric lavage-as important measures in securing rest and aiding elimination

Carlson and Bunnell's experimental studies on the value of pneumothorax is the prevention of pleural effusions after thoracotomy (p 198) and Naervi's study of the methods of tendon re generation and repair (p. 220) suggest some im portant and practical clinical applications

Voltz review of the results of irradiation treatment of carcinoma of the cervix in the Munich Gynecological Clinic from 1912 to 1919 (p 217) Davis description of methods of treat ing deen X ray burns (n. 213) and Albee's interesting account of a difficult and eventually successfully treated case of fracture of the femur complicated by ostcomvehtis (p. 210) are a few of many abstracts worthy of special note in this month a usue of the Abstract

INTERNATIONAL ABSTRACT OF SURGERY

SEPTEMBER, 1926

COLLECTIVE REVIEW

THE PATHOGENESIS OF THE GASTRIC-DUODENAL ULCER¹

By GEORGE HALPERIN, M D, CHICAGO

THE so called peptic ulcer of the stomach and duodenum is a common malady in man. Its cause, however, is as much a mystery today as it was when Claude Bernard first demonstrated that the leg of a living frog will be digested if placed through a fistula in a dog's stomach. Why does not the gastric nucosa digest itself? Dragsted and Vaughn have shown that other living tissues will resist the action of gastric juices. John Hunter believed that a certain vital principle inherent in the parts protected them from digestion.

Since healthy cells will successfully withstand the action of gastric juice, we must presuppose that the vitality of the cells must be lowered before the gastric juice can evert its proteoly tie action upon them. Virchow postulated that all chronic gastric ulcers originate from an erosion. Aschoff defines an erosion as a superficial loss of substance of the mucous membrane resulting from the disin tegration of a circumscribed mucosal necrosis or from a hæmorrhagic infarction with secondary digestion. The loss of tissue must be limited to the mucosa and the uppermost layers of the submucosa. The muscularis proper is not in vaded.

Thus the ulcer problem can with advantage be approached from two sides, the origin of the erosion and the development of a chronic ulcer from the erosion. The erosion is the pivotal point from which we must start and to which we must return in all our speculations regarding the origin of the chronic gastric or duodenal ulcer That the origin of the erosion has not been

solved is attested to by the existence of several widely divergent theories. The following will be here discussed. (i) The circulatory theory, (2) the neurogenic theory, (3) the infectious theory, (4) the inflammatory theory, and (5) the mechanical functional theory.

I THE CIRCULATORY THEORY

The circulatory theory was advanced by Virchow and Hauser in 1853. Virchow taught that ulcers are produced by an infarction of a terminal blood vessel with consequent necrosis, the starting point for the digestive action of the gastric juice. This view was universally accepted. In connection with this conception the role played by the excessive gastric secretion assumed a special importance. Among the older climicians, Riegel considered hypersecretion the decisive factor. This view was later shared by Boas, Sippy, and von Bergmann, in fact by the majority of climicians.

It was pointed out that chronic ulcers occur only in that part of the gastro intestinal tract which is exposed to the action of the hydrochloric acid, viz, the stomach and the first two inches of the duodenum. They do not occur in the cesophagus and are rare in the cardia. When the jejunum is exposed to the action of the gastric juice, as following a gastric-neiterostomy for ulcer, the well known marginal ulcer fre quently develops. On the other hand, no such type of ulcer has ever been observed when the gastroenterostomy was performed for gastric cancer.

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EDITOR'S COMMENT

THE tremendous impotus that has been given to the study of the physiology and pathology of the liver and bile passages as a result of the introduction of Graham and Cole s method of gall bladder visualization is reflected in a con stantly increasing number of papers on this sub ject emanating from surgical clinics in widely separated centers Rubenstone and Tuft's dis cussion of the comparative value of functional liver tests (p 200) and Graham Lyon Zink, and George's symposium on the diagnosis of gall bladder disease (p 210) are some of the recent contributions that are beloing to make the diag nosis of disease of the liver and bile passages more certain and accurate

Some of the difficulties of secondary operations on the gall bladder and the bile passages are discussed in Payr's interesting paper on ex posure of the common duct in operations for re currence of stone after cholecystectomy (p. 212) The use of a catheter and syringe is again recom mended as a method of disengaging stones high

up or low down in the ducts

The possibility of anastomosing a biliary fistula with the stomach or duodenum as emphasized by Babcock (p 211) and the ease with which deep hamorrhage may be controlled by upward pressure on the hepatoduodenal ligament with the index finger in the foramen of Winslow as has been suggested by Gibson and other sur geons should be remembered in connection with Payr's suggestions for overcoming the technical difficulties of the operation Guticre2's account of the implantation of a pancreatic fistula into the stomach (p 214) indicates the possibility of successfully treating pancreatic fistulæ as well as biliary fistulæ by this method

Fuch a studies of the inner topography of the kidney (n. 223) emphasizes the fact that just before they enter the parenchyma large blood vessels from the ventral group pass in the inter

stices between the calyces to join the dorsal group, and that when the incision suggested by Zondek is made to deliver a large pelvic stone these large vessels may be divided Bouchard and Laquière s examination of a patient nineteen years after ureterorrhaphy emphasizes the im portance of the peristaltic action of the ureter in the normal evacuation of the renal pelvis. In this case although the ureter had been sutured without resulting stricture formation, the pelvis and upper ureter were dilated and filled with turbid stagnant urine

Butler and Delprat's review of ninety three cases of intestinal obstruction from the San Francisco Emergency Hospital (p. 206), Weeks and Brooks recommendation as to the treatment of acute peritonitis (p 201), and Delore, Creyssel and De Rougemont's discussion of the care of patients before and after operations on the stomach (p 205) are of particular interest because of the emphasis placed on non-operative meas ures-fluid administration, complete rest for the gastro intestinal tract, and gastric lavage-as important measures in securing rest and aiding elimination

Carlson and Bunnell's experimental studies on the value of pneumothorax is the prevention of pleural effusions after thoracotomy (p. 198) and Nacrvi's study of the methods of tendon re generation and repair (p 220) suggest some im portant and practical clinical applications

Voltz' review of the results of irradiation treatment of carcinoma of the cervix in the Munich Gynecological Clinic from 1012 to 1010 (p 217) Davis description of methods of treat ing deep X ray burns (p 233), and Albees interesting account of a difficult and eventually successfully treated case of fracture of the femur complicated by osteomyelitis (p 230) are a few of many abstracts worthy of special note in this month's issue of the Abstract

ulcer patients are "vagotonics" or "sympatheticotonics" Attractive as this hypothesis may seem, it is unsupported by convincing clinical data on the one hand nor by experimental data on the other

III THE INFECTIOUS THEORY 1 STREPTOCOCCI 2 OIDIUM ALBICANS

I Streptococci Rosenow claims to have been able repeatedly to produce ulcerations in the stomachs of experimental animals by inoculating with streptococci cultivated from foci of ulcer patients and from the ulcers themselves Such foci were usually abscessed teeth or tonsils. The streptococci in these cases seem to possess a characteristic selective affinity for the mucous membrane of the stomach or the duodenum Streptococci were again recovered from the ex perimental lesions and again reproduced ulcer ations in stomachs upon re injection. The ulcers thus produced resembled those in man in location, in gross and microscopic appearance, and in the fact that they tended to become chronic, to per forate, and to cause severe or fatal hæmorrhage According to Rosenow, the necessary require ments have been fulfilled to warrant the conclusion that the usual ulcer of the stomach and duodenum in man is primarily due to a localized hematogenous infection of the mucous membrane by streptococci

Mann and Wilhamson of the same clinic (Mayo) have developed a rather ingenious method for producing chronic ulcers in dogs They transplant the duodenum into the ileum and anasto mose the jejunum into the pylorus Rosenow did not accept their physiological explanation of ulcer causation He was able to find a strep tococcus in these ulcers as well He again dem onstrated their selective localizing power on intravenous injection, their presence in the foci of infection of the experimental animals, and their ability to produce poison in vitro More than that, he was able to immunize some of the anımals against ulcer development

In a series of dogs, Ivy failed to produce ul cers by injecting streptococci of proven virulence into two or three branches of the gastro epiploic artery

Rosenow's conclusions await confirmation by other workers

2 Ordium albicans Very recently (1921), Askanazy claims to have found oidium albicans, long known as a common saprophyte of the hu man mouth in the craters of ulcers in resected stomachs He succeeded in developing ulcers in animals by inoculating into injured mucosa ground up tissue taken from the craters of human ulcers This work was negatived by the findings of other workers who discovered these organisms chiefly in the periphery of ulcers and not in the necrotic zone, and were not able to reproduce the lesions The organism is therefore regarded as an accidental saprophytic contami nation of no etiological importance

IV THE INFLAMMATORY THEORY

So far, attempts to solve the ulcer problem have brought out the fact that healthy mucosa will resist digestion. Therefore, a loss of cell vitality must be assumed to occur before the development of an ulcer. It was necessary to determine the earliest damage to the mucosa Trauma mechanical, thermal, or chemical, sug gested itself as the possible cause Experimental attempts in this direction resulted in failure since. as has been previously mentioned, no one succeeded in producing a chronic ulcer experimen tally

It was suggested also that the initial damage might be brought about by circulatory dis turbances in the gastric or duodenal vessels Pathological conditions of the vessels themselves. such as stasis, thrombosis, embolism, or sclerosis. were considered. It was borne in mind also that circulatory disturbances might be brought about indirectly by neurogenic influences, such as angiospasms or by spastic contraction of the gastric musculature resulting in compression of the gastric vessels Any of these disturbances might lead to the formation of hæmorrhagic infarcts or areas of anæmic necrosis, a starting point for digestion by the active gastric juice

Experimental ligation of blood vessels pro duced erosions and ulcerations, but these dis played the same tendency to heal rapidly as experimental ulcers caused by direct injury to the Such experiments therefore did not throw any light upon the origin of chronic peptic ulcer in man

The recent increase in stomach resections for gastric and duodenal ulcers furnished an abundant and valuable material for histological studies So far, reports have been published by relatively few workers, chief of whom are Moscowicz, Konjetzny, Orator, Kalima, Lehman, and Puhl These studies assume a particular significance because of the striking uniformity in the findings of the various investigators and the number of stomachs examined, which is well up in the thousands They point out in the first place the unreliability of postmortem material as contrasted with warm fresh material obtained by

resections. These studies have resulted in an entirely different viewpoint

It was found that in all cases of gastric or duodenal ulcer there existed a gastritis or a duodenitis. The inflammation was most marked in the antrum the fundus portion exhibiting very little or no inflammatory change. The duodenal mucosa showed an inflammatory change in ca es of duodenal ulceration, and not infrequently also in cases of gastric ulcer. In a very considerable percentage of cases the areas of gastritis con tained multiple small oval round, and linear erosions the largest of which could be recognized macroscopically as superficial erosions. In some of the preparations such erosions covered by a fibrinous deposit were unusually numerous Gross inspection of these specimens gave the impression that the lesions represented various stages of development of the same process Specimens were observed which showed no frank

ulcer but just the picture de cribed Konjetzny found microscopically in cases of gastric or duodenal ulcer a gastritis or duodenitis in all stages of development. Closer histological study revealed their unmistakably inflammatory character The histological picture was so typical as to be identical in dozens of preparations There was to be observed an infiltration of the interstitial tissue with polymorphonuclear leuco cytes. The epithelium of the glands showed here and there degenerative changes such as fatty infiltration or desquamation and loss of epi thelium In places where the epithelial lining was seen to be broken there were noted ac cumulations of polynuclear lencocytes as a mesh work of fibrinous exudate. These histopatho logical units differed from those of a typical ulcer The findings described were con in extent only fined to the antrum and the duodenal bulb

Konjetzny particularly calls attention to the fact that most painstaking studies of the blood vessels in these areas failed to reveal any change in their walls neither did he observe any evidence of hæmorrhage such as hæmosidenn deposits He had never noted anæmic necrosis or hæmor rhagic infarction or the so-called hæmorrhagic erosions so frequently seen in the fundal portion at autopsy. In view of his findings, the theory of a nutritional disturbance brought about through direct or reflex circulatory disturbances and cau ing anæmic necrosis or hæmorrhagic in farction in otherwise normal gastric mucosa as a starting point for peptic digestion appears to him utterly untenable. On the other hand inflam matory changes in the mucosa without any evidence of peptic digestion were observed with

great regularity. The periodicity of the clinical symptoms may find an explanation in the tend ency of these grossops to head

The conclusion was drawn that the development of gastric or duodenal ulcer depends upon a more or less acute inflammatory process of the mucosa, as the result of which the gastric juice can evert its proteolytic action upon the damaged area. Because of functional motor activity the resulting superficial defects or erosions of the mu cous membrane can develop into chronic ulcers

The occurrence of a local gastrats in the vicinity of an ulcer was well recognized but was always regarded as secondary to the ulcer. The idea that it may be the cause rather than the effect was first conceived by Cruveilhier and later emphasized by Mathieu. Paul Cohnheim considered 'acid gastratis.' the first step in the development of a gastric or duodenal ulcer. Nauwerck in 1895 expressed the behef that the gastratis might be the primary condition and the cause of an ulcer. He comed for it the comprehensule term gastratis fronce ulcerosa."

If it be true that the erosions found in the areas of inflammation are the starting points of illed formation it remains only to follow or rather to explain their conversion into chronic ulcers. This phase of the problem has been elucidated by Aschoff and his school. In his anatomical mechanical or motor functional theory Aschoff endeavors to explain the relation of mucosal erosions to chronic ulcer.

V MECHANICAL OR MOTOR FUNCTIONAL THEORY

Essential to the understanding of the me chanical or motor functional theory is Aschoff s conception of the function of the so called 'Magenstrasse —the gastric pathway or gastric channel, and of the isthmusportion of the stomach The name 'Magenstrasse' was applied by Waldeyer in 1908 to a characteristic arrange ment of the folds of gastric mucosa along the lesser curvature

The fact that practically all typical gastric ulcers occur in the area of this gastric channel suggested that for some reason the magenetrasse is particularly unnerable

To demonstrate the evistence of the gastine channel Bauer advises fixing the stomach with formalin by the intravascular route not later than three or four hours after death. Such a stomach still retain its tonus, but is no longer capable of contracting with consequent change of the mucosal topography. When it is opened along the greater curvature, a groove is found in

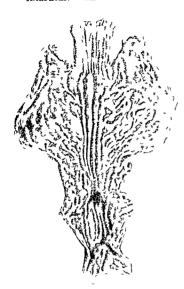


Fig 1 The stomach of an adult removed two and one half hours after death The magenstrasse very prominent Note the difference between the mucus folds of the corpus and those of the pylorus (after K H Bauer)

the lesser curvature area. This groove, which begins at the cardia and runs toward the pylorus, is interrupted at the incisura angularis. It is delineated by two or three wall like longitudinal folds. The base of the groove shows both smooth mucosa and lower ridges. These parallel folds run from the cardia as prolongations of the longitudinal folds of the ecsophagus, down to the pylorus without exhibiting any communicating transverse folds. They are not demonstrable in greatly distended stomachs. When Bauer introduced 25 per cent sulphuric acid into the stomach of a partly anasthetized dog through a stomach tube, the escharotic effect of the acid was confined to the magenstrasses.

The fold system of the gastric mucosa is of course due to its redundancy. The tone and the contractions of the gastric musculature throw the

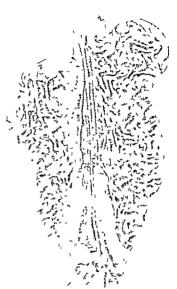


Fig 2 Human stomach removed one and one half hours after death fixed for twenty four hours, and then opened (after K. H. Bauer)

redundant mucosa into folds. The topography of the gastric mucosa is therefore the anatomical expression of the functional activity of the gastric musculature. What determines the peculiar arrangement of the gastric pathway? The answer must be found in a study of its muscular structure. As is known, the stomach, unlike the rest of the gastro intestinal tract, possesses three muscular layers, a longitudinal, a circular, and an oblique layer. Bauer has demonstrated that the special anatomical character of the magenstrasse is due to the evistence there of the oblique fibers in addition to the longitudinal and circular fibers.

Contraction of the circular fibers throws the mucosa into longitudinal folds and narrows the stomach throughout, but it is the presence of oblique fibers that explains the persistence of the



I resions of the gastric pathway (After Stroh mever

longitudinal folds of the magenstrasse synergistic action of the circular with the oblique fibers forming horseshoe like interlacing bun dies explains why as shown roentgenologically food will be held at the cardia for a considerable time although this area possesses no sphincter The longitudinal folds of the gastric channel cease at the incisura because the oblique fibers cease at that point

The pastric channel therefore differs from the rest of the stomach in that it has a characteristic musculature By the contraction of its fibers it can form a lumen of its own distinct from that of the rest of the stomach. Bauer concludes that the structure and the function of the magen strasse suggest that it is the phylogenetic rudiment of the gullet of ruminating animals The human stomach represents the welding of two organs The greater vulnerability of the magenstrasse is explainable on the ground that it is not well adapted to be a part of the digesting stomach, being in reality a survival of the original gullet The pathogenesis of the magenstrasse therefore falls in a class with that of the appendix and the gall bladder. In other words it shares together with the latter structures the disposition of all rudimentary organs

Aschoff points out that the blood supply of the magenstrasse is not as rich as that of the fundus portion The fundus is supplied by the branches of the right and left gastro epiploic arteries and by the collateral branches from the gastric artery. The gastric channel is supplied by the recurrent branches of the gastric or pylonic arteries only

Ligation experiments performed by Yano on rabbits (unpublished, quoted by Aschoff) dem onstrated the difference Ligation in the region of the gastro-epiploic arteries had no recognizable effect upon the fundal mucosa, whereas heation in the area of the gastric or pylonic artery led to localized nutritional disturbances which were demonstrated by the subsequent intravenous in section of dyes. The mucous membrane areas belonging to the ligated vessels remained more or less colorless. Aschoff thinks that in man also. arterial blocking must play a particular rôle in the origin of these changes in the gastric channel Moreover, he calls attention to the fact that the branches of the gastric artery have a segmental arrangement in the gastric wall and the areas between these may be particularly affected by the frequent and powerful contractions of the magenstrasse

It is interesting to examine Aschoff's views regarding the origin of the erosion itself. He in sists upon differentiating between hamorrhagic erosions of the fundus and erosions of the gastric channel These lesions owe their origin to entirely different conditions, but in neither case do infectious toric infectious or mechanical factors play a prominent part. He sees in circulatory disturbances the probable cause of both Fundus erosions are caused by venous stasis and the spasmodic movement of vomiting Erosions of the magenstrasse are probably the result of the peculiar spastic condition of the channel itself or of arterial blocking. In view of Konjetzny's histological studies embolic blocking can be ruled out Atherosclerotic changes are more fre quent but they are also unusual since these erosions and ulcers develop in the young and the middle aged. It is possible that spastic contractions of the vessels themselves may be responsible. While experimental evidence is lacking Aschoff is inclined to believe that such contractions play an important part in the origin of erosions of the magenstrasse

The 1sthmus 1s to be looked upon not as a special anatomical structure, but as a functional one It was first described by Forsell as the narrow pass Aschoff frequently observed it in examining the stomachs of recently killed soldiers during the late war. It represents a tonic contraction of a part of the stomach. On a mixed diet the isthmus takes on the shape of a funnel through which the fluid contents rapidly digested in the corpus are transported to the vestibule

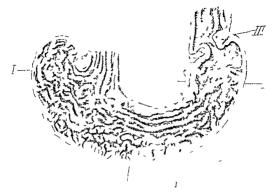


Fig. 4 I Limit between the forms and the corpus II Limit between the infundibulum and pylone canal III Limit between the pylone canal and duodenum i Isthmus (After Aschoff)

and from there are evacuated by the contraction of the pyloric canal

The gastric channel extends from the cardia to the beginning of the pyloric canal The impression is given that the gastric channel and the pylonic canal should be regarded as one functional unit The separation of the magenstrasse from the rest of the stomach can be well recognized even on transverse section throughout a contracted stom ach It can then be seen that the channel, now better called the groove, is limited by the four familiar folds, while the folds of the fundus lie irregularly, one against the other One gains the impression that the contracted, i.e., more or less empty stomach drains the juices from the fundus into the gastric groove so that they may flow toward the pylorus To this conception the ob jection has been raised that no such gradual opening out of the stomach from the gastric groove is to be seen in roentgenograms. Very re cently, however, Orator has been able to show just such opening pictures in his roentgenological studies at the Vienna Surgical Clinic With the rapid introduction of an opaque meal, the fold system opens up very quickly so that these differences are not recognizable

It is now quite evident that the fate of an erosion in the magenstrasse will be quite different from that in the fundus. In the latter one finds

the greatest mobility of the fold system, in the former taut longitudinal folds. The fundus discharges gastric juice, while the magenstrasse receives it and acts as a sort of a drainage tube. Losses of substance in the gastric channel continue to gape, and they come in contact with the gastric juices much longer and are injured mechanically by the peristaltic movements more than erosions in the fundal portion. Also of importance may be the fact that fundal mucosa secretes a thin mucus which is poured out over the wound surface for protection. This mucous formation has not been observed in the region of the magenstrasse.

To sum up, the particular predilection of the magenstrasse for the development of chronic ulcers is attributed to the following facts

r As a rudimentary structure the magen strasse is not well adapted to be a part of the digesting stomach

2 Its blood supply is comparatively poor

3 Because of its special physiological function as the gastric pathway, it is subjected to frequent and powerful muscle spasms

4 The peculiar anatomical arrangement of its folds makes it difficult for a mucosal erosion to heal

5 The mucous membrane of this area does not secrete a protective mucin

The last word upon the subject of the pathogenesis of the gastric duodenal ulcer has not yet been spoken. Much new knowledge has been gained from recent histological studies of resected stomachs These studies have given us a new viewpoint namely, the inflammatory theory The work of Aschoff and his collaborators has thrown a flood of light on the subject of the physiology of the stomach New and onginal conceptions regarding the function of the gastric channel and the isthmus have opened up new vistas. We seem to be on the threshold of a solution of this difficult and important problem

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ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Ivy R II, and Curtis, L Fractures of the Mandi ble An Analysis of 100 Cases Denial Cosmos, 1926 IXVIII 439

The 100 cases of fracture of the mandible reviewed by the author did not include fractures resulting from bon' infection or new growths. Ninety per cent of the patients were males, and with one exception all were over 18 years of age. All of the fractures were due to force. Sixty eight per cent were single 31 per cent were double, and one was triple. In ten cases no fixation was necessary. Seventy mine (88 per cent) were treated by wiring the upper and lower teeth together. The number of fixations by several different methods the time between the injury and the fixation and the time of mainten nance of the fixation are given in a table in the original article.

The authors conclude that fractures of the man dible demand the most accurate reduction and approximation of the fragments based on proper occlusion of the teeth, and that in 90 per cent of the cases of any type of fracture of the mandible the simplest and most effective method of fixation is intermavillary suring of the teeth

EMIL C ROBITSHEK, M D

EYE

Weeks J E Tuberculosis of the Eye $Am\ J$ Ophth 1926 3 s ix 243

The various manifestations of tuberculosis in different parts of the eyeball and its adnexa are described briefly. The different tuberculins commonly employed are compared and their use in dagnosis is discussed. The author comments also upon tuberculin treatment, and its results

THOMAS D ALLEN M D

Verhoeff, F H A Case of Metastatic Intra Ocular Mycosis Arch Ophth, 1926 lv 225

Verhoeff reports a case of metastatic intra ocular infection with organisms which formed granules and clubs resembling those found in actinomycosis. The organisms differed from actinomyces in that the filaments which composed the granules were more delicate, unbranched, and gram negative They were not acid fast.

The eye was enucleated, but the patient had fever and enlargement of the liver and there were evidences of endocarditis Potassium nodide was administered, but the condition continued and

death occurred five months after the onset of the first symptoms

It is suggested that similar cases without ocular involvement may sometimes escape recognition

SAMUEL A DURK, M.D.

Lancaster W B The Fusion Faculty and Some of its Anomalies Am J Ophth., 1026 3 5 1x, 247

Lancaster briefly reviews the development of the fusion faculty in animals. In most lower animals the fusion faculty is little needed or developed. In the carnivora and animals that live in trees accurate judgment of distance is important. The eyes therefore turn forward so that the fields of vision overlap and binocular fusion develops. The mechan ism necessary to secure binocular vision includes fibers connecting the eye and various visual centers and the motor apparatus.

Points not on the horopter impressing points of the return not identical give the sense of depth Different lights and colors falling on corresponding points of the two eyes lead to rivalry of the two returnal fields and diplopia. Suppression of one returnal image is learned when it serves to meet the visual reeds Thomas D Alley, M D

Suker G F and Cushman, B An Improved Technique for Iridectomy for Glaucoma Am J Ophth 1926 3 s 1x 268

In indectomy as performed by the authors a curvilnear conjunctival incison is made about half way between the limbus and the insertion of the superior rectus with its convexity toward the cornea. The flap is then dissected free from the limbus of which from 6 to 8 mm is exposed, and the dissection continued slightly beyond the limbus without splitting the cornea. A cataract knife is then introduced vertically 1 or 2 mm above the limbus at either end of the exposed sclera and thrust icm into the anterior chamber, just anterior to the ins the section being then completed by an upward sawing cut to a point opposite the wound of en trance. This gives a shelving serrated incision practically through the scleral spur

The III's Seized with a forceps drawn out gently and downward and forward toward the cornea With an III's successive small nicks are made in the III's one blade being kept under the upper scleril edge until the opposite end of the section is reached. The III's is then drawn in the opposite end direction and severed completely.

The conjunctival flap is replaced by stroking with a spatula Sutures are rarely necessary

The advantages claimed for this method are the conjunctival flap the cicatrix away from cornea tissue a serrated scleral section favoring a filtering scar and prompt healing. The tension is reduced and remains so without the use of miotics the operation a per cent atropine may be instilled The danger of late infection is very slight. Drawing the ins downward without tearing it favors the deposit of iris pigment in the wound. From twenty four to forty eight hours after the operation the suspensory ligament and occasionally the ciliary body are visible through the coloboma. When the anterior chamber is obliterated the section may be made as in a cyclodialysis Scopolamine and mor phine are used before the operation in all cases SAMORE A DURK M.D.

Obarrio P Lid Traction the Greatest Safeguard Against Vitreous Loss in Cataract Operation im J Oblib 1020 15 15 204

Decree ed intra ocular tension renders vitrous loss less probable while pressure on the globe causes loss of vitrous by untreasing the intra ocular tension. Traction on the hisk causes collapse of the cornea and diminishes tension making instrumentation safer particularly the use of a lens spoon or loop. The mechanical principles and the anatomy involved are discussed. The speculum used by Obarno is similar to de Lapersonne's speculum is thas blades which fit well with little tendency to ship and between the arms and the blades are hinges which make it possible to rotate the arms backward or forward without disturbing the relation between blades and the lids.

The assistant seize the speculum as soon as the corneal section is completed and makes traction constantly on both lide until the eye is bandaged. The operator's movements are anticipated in order that he may be given the best exposure at all times.

In enucleations pressure is made on the hids to cause the eye to move forward

SAMUEL A DURR M D

EAR

Shambaugh G E The Development of the Mem branous Labyrinth Arch Olofaringol 1926 111 211

According to Shambaugh one of the difficulties in preparing sections for microscopic study of the internal ear is the secuting of sections which will present the relationships in such a way that they can readily be understood. The labyranth of the ear of the domestic pig is particularly suitable for such preparations because in the embryo as well as in the newborn pig it can be separated with its capsule from the surrounding structures with lattle difficulty.

from the surrounding structures with little diffi ulty Shambaugh describes and illustrates five prep arations as follows

First preparation (Fig. 1) This preparation was obtained from a pig 3 5 cm long. The setion is horizontal passing through the cochlex and vests

bule and the posterior part of the capsule which contains the semicricular canals. Included in this preparation is the stapes. The cartilage forming the anterior part of the stapes is directly continuous with that of the capsule whereas the posterior border of the stapes has already separated from this capsular cartilage through the formation of connective tissue.

The relations of the lacial nerve and large blood vessels the location of important structures such as the sacrule the utricle and the macule acustice and the location of the semicircular carals in the posterior part of the preparation and of the coch tea and ductus cochlears in the anterior part are described in detail

Second preparation (Fig 2) This preparation shows a marked advance over that from the 35 cm embryo. The structures forming the beginning of the perily imphatic vestibule and those which enter into the formation of Cortis organ are de-

Third preparation (Fig. 1) This section again passes through the niche of the oval window in which is recognized the inches of the oval window in which is recognized to the third preparation of the problem of the problem in the saccule and utricle for the formation of the macule and the plane of these two end organs lying at right angles to each other. No sign of an otiotist membrane is as yet seen.

In the basal coil as the lower night hand corner of Figure 3 the absorption of the connective tissue retirelum surrounding the ductus cochlears is well started. The beginning of a scala vestibuli above and oi a scala is might be recognized. The upper wall of the ductus cochlears goes to form the membrane of Ressner. The absorption of connective tissue for the formation of the scale it winpain is not advanced far enough to form a recognizable membrane privalers.

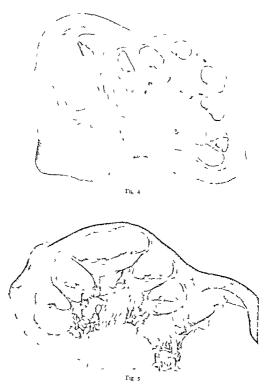
Fourth preparation (Fig. 4). In this preparation the cros section of the cochie as known in adult in becomes recognizable. Attention in the cross the cross are considered to the cochie as the comparation of the cochie and the comparation of the cochie and the comparation of the stantial membrana tections. The development of a substantial membranian tectiona. The development of the scala temparation throughout the basal coil has progressed far enough to permit the formation of the structure which is later recognized as the membran basiliars and in all but the aprical coil the formation of the spraif ganglion is also well ad vanced

Fifth preparation (Fig. 5) This section passes directly through the center of the modolous cutting the ductus cochleans in each of the two and one half coils in a manner which shows Cortis organ to best advantage that 1 parallel with the pillies of Cort of the cartility of the cartility has completely changed into hone and there is a mechanism fully developed and apparently ready to receive impressions from the mightes of sound with the cortice of the cartility ready to receive impressions from the receive that a newborn pig is capable of hearing.

A Rioticische MD



Shambaugh —The Development of the Membranous Labyrinth



Shambaugh -The Development of the Membranous Labyrinth

Hollender A R and Cottle M H A Clinical and Experimental Study with Some Physical Agents in Partial Deafness Preliminary Report Arch Ololaryngol , 1926, 111 338

The authors made experimental and clinical studies in an attempt to establish a basis for the use of diathermy in the treatment of progressive un differentiated defective hearing They do not main tain that electrophysical therapy is specific or that it replaces other measures which are known to offer a favorable prognosis, but state that in a large series of cases of chronic catarrhal deafness it has been found of some value even after other measures have failed Further experience may show that it is possible thereby to arrest the symptoms of oto sclerosis

The clinical improvement obtained is dependent upon four factors (1) the nature and extent of the pathological changes, (2) the apparatus and elec trodes used, (3) the manner in which the treatment is applied, and (4) the length of time the treatment 15 continued

The treatment should be applied on the basis of anatomical principles and continued over a long

The time that has elapsed since the author's experiments has been too short to warrant a decision as to the permanency of the improvement or cure TAMES C BRASWELL, M D

NOSE AND SINUSES

Phelps k A Congenital Occlusion of the Cho ance Ann Otol Rhinol & Laryngol 1026, xxxv.

Congenital occlusion of the choanæ may be membranous or bony unilateral or bilateral, com plete or incomplete and accompanied by other congenital defects. It occurs in females twice as often as in males and is bilateral three times more frequently than unilateral Unilateral occlusion occurs much more commonly on the right side than on the left The condition does not seem to be hereditary

The symptoms of complete obstruction are strik ing as the infant has great difficulty in breathing and in nursing and its nasal cavities are filled with a peculiar glairy gelatinous secretion Additional findings are anosmia diminished lung expansion on the affected side, an increase in the blood pressure, incontinence of urine, dyspepsia, and dry pharyn gitis

The symptoms of unilateral obstruction are less marked The diagnosis is confirmed by the impossibility of passing a probe through the nose, by nasopharyngoscopic examination and by palpa tion with the finger in the nasopharynx

The recognized method of treatment consists in making an opening through the obstruction and removing it In the author's opinion, the posterior portion of the septum should also be removed

GEORGE R. McAuliff, M D

Goalwin, H A Some of the Newer Methods of X-Ray Examination of the Paranasal Sinuses, the Optic Canals, the Pharynx, and the Larynx Laryngoscope, 1926, XXXVI, 235

In a rather detailed discussion of some of the newer methods of examining the paranasal sinuses, the optic canals, the pharynx, and the larynx with the A ray, Goalwin calls attention to the fact that the roentgen examination of the paranasal sinuses is probably the most widely used laboratory pro cedure in rhinology

He contends that the widely prevalent practice of making a diagnosis of sinus conditions from one or two roentgenograms may lead to serious error even in acute cases and is absolutely unreliable in chronic cases The complete examination of the sinuses requires at least seven roentgenograms, a lateral, a postero anterior a cephalodorsoventral, a caudodorsoventral, and an axial roentgenogram and one each of the right and left optic canals

Each sinus has a normal illumination which depends upon its depth as well as the density and thickness of its walls and those of the skull Before a decision is made with regard to the condition of a sinus the normal illumination to be expected must be estimated Such an estimate is made possible only by a full lateral and full postero anterior view

The roentgenologist should be thoroughly familiar with all of the clinical and roentgenological aspects of the disease, any deformities of the head, and needless to say, the finest details of the anatomy of the head

In roentgenography of the optic canals great precaution is necessary The size of the focal spot of the tube should be measured and the distance of the focal spot from the plate and of the canal from the plate should be noted

The size of the optic canal cannot be determined directly from the film. It must be calculated

The roentgenologist's duty does not end when he makes a diagnosis He should furnish the clinician with all of the anatomical data which can be determined from the roentgenograms as these will be of aid in the treatment A R. HOLLENDER, M D

The Diagnosis and Treatment of Dean, L W Paranasal Sinus Infections in Infants and Young Children Under Ethylene Anæsthesia Laryngoscope 1926, xxxv1 257

In Dean's experience sinus disease in infants and young children which is associated with severe systemic conditions such as arthritis, chorea and nephritis has been slow to yield to treatment Little difficulty has been encountered in diagnosing chronic sinus infection, but eradication of the last trace of the sinus disease has been less simple

Irrigation of the maxillary sinuses is best accom plished under ethylene anæsthesia

The diagnosis of sinus disease in infants and young children is facilitated by ethylene anæsthesia For operations on the nose or sinuses, chloroform and oxygen are preferred because, when they are employed the field is much less bloody and electrically driven suction machines may be used in the

operating room with safety

Dean now uses a new fechnique in investigating the mavillary sinuses. Instend of inserting a long needle through the trocar that has been passed into the sinus he attaches a syringe directly to the trocar and injects sterile normal salt solution into the sinus and aspirates it through the trocar. The trocar has an intenor diameter three times that of the needle formerly used therefore larger pixees of pus and thicker pus may be aspirated. The tech nique described obviates the danger of injuring the sinus wall by a second needle which as originally used projected beyond the end of the trocar.

The material aspirated is examined macroscopically for pus and sent to the laboratory for microscopical examination and culture

A R HOLLENDER M D

Lodge W O Observations on the Frontal Sinus Bril M J 1926 1 60

During quiet intervals in recurrent catarrhal inflammation a diagnosis is difficult as the nasal chambers appear healthy transillumination is of no help and roentgenograms are negative. Hence most relance must be placed on the history.

The continued use of an oils spray containing methol chlorotone etc may ward off an attack and duning an attack the introduction beneath the middle turbinate of cotton pleedgets wet with occaine and adrenalin may give relief. Resection of the middle turbinate with or without probing and dilatation of the duct vields more consistently satisfactor results.

Mucocele is less frequent in the frontal sinus than in the other sinuses. Its development is favored by closure of the outlet and the absence of pyogenic organisms. Surgery is the treatment indicated

Emprema is due to ascending infection from the nose resulting from frauma influenza the presence of foreign bodies or ethmoid suppuration. In this condition also surgery is indicated

Among miscellaneous affections discussed are tuberculosis of the frontal bone gummatous perios titis sarcoma and osteoma

GEORGE K MCALLIFF M D

Schreiner B F A Report on Fifty Four Cases of Malignant Neoplasms of the Antrum of Highmore 4r h Clin Cancer Research 1925 1 65

Schreiner reports on fifty four cases of tumor of the antrum of Highmore on forty one of which a biopsy was performed. Thirty three of the neo plasms were classified as epithelomata three as spindle cell sarcomata three as my cosarcomata and two as guant cell sarcomata. The remaining thirteen which were not examined by biopsy were clinically malbgant.

In the period from 1914 to 1920 the treatment usually consisted in the surgical removal of as much of the tumor as possible. In one case treated in June, 1916 resection of the superior matulla was done and followed by the introduction of radium into the cavity of the antrum and the application of low voltage \times rays from the outside \times his patient has been clinically well since November 1916

Since 1920 the practice has been varied. In many cases the implantation of bare tubes into the tumor mass in the antrum has been done through the mouth and in some instances directly through the hard palate which was eroded The remaining cases have been treated by the insertion of radium seeds or radium tubes filtered through brass and 1 mm of rubber through an opening made above the alveolar process. While in all of the cases treated up to 1920 the radium application was supplemented by low voltage \ rays applied from the outside or by radium packs at a distance of 6 cm more recently high voltage \ ray treat ment divided over a period of from ten to twelve days has been used in the cases in which radium seeds have been implanted or radium tubes applied It has often been necessary to remove sequestra

weeks or months following the treatment. The results are summarized as follows

I Five patients who had an epithelioma of the antrum of Highmore have been clinically well for periods ringing from six months to nine years

2 Two patients treated for giant cell sarcoma of the antrum are clinically well eight and one half years and five years respectively after radical sur gery and radiation

3 Of the three patients with spindle cell sar coma one has had relief for a year but the two others show no improvement

others show no improvement

The three pitients with my vosarcoma failed

to respond to treatment and died 5 When the disease his metastasized to the regional lymph nodes improvement has only been temporary A R HOLLENDER M D

MOUTH

Regaud C Radium Theraps in Cancer of the Tongue and Secondary Involvement of the Lymph Nodes (Ueber die Radium therapie der Zungenkrebse und ihrer sekundaren Druesener krankungen) Stablientherapie 1925 xv. 37

The author reports upon the results of radium irradiation in 174 cases of cancer of the tongout which were treated at the Radium Institute of the University of Paris in the period from 1920 to 19 A chinical cure ie disappearance of the local tongue affection was obtained in eighty-one cases (46) per cent) but in thirty inne of these death resulted from metastases in the lymph nodes. At the Cancer Congress at Strassburg in 1923 the author reported upon the twenty four cured cases which were irradiated in 1920 and 1921 Since in the meantime there has been only one death from recurrence of the cancer he considers it justifiable to regard as permanent cures the newly published cases. Cures were obtained more frequently in

carcinoma of the anterior portion of the dorsum of the tongue than in those of the posterior portion

When the ulcer is very small the diagnosis not entire's certain and the excision of a specimen would be equal to total extirpation of the lesion the treatment should be surgical. Other cases come

within the scope of radium treatment

Following a biref description of the most effective method of treating with radium the author discusses the metastases in the lymph nodes. Whereas for the primary tumor he prefers radium puncture with ½ mm platinum needles be states that this procedure has not stood the test in the treatment of metastases in the lymph nodes. Whenever possible, he does an extirpation and follows it by irradiation as he sees in the great volume of tumors of the lymph nodes a cause for the failure of the radium therapy. Only when operation is impossible with out laying open the carcinomatous area does he give radium treatment alone.

When lymph node involvement is not evident prophylactic irradiation is necessary only in cancer of the base of the tongou. In carcinoma of the posterior portion of the dotsum radium gives very poor results therefore the author prefers rongingen ray irradiation for this condition. BERNSTEN (2)

PHARYNX

Mosher, H. P. Exostoses of the Cervical Vertebræ
as a Cause of Difficulty in Swallowing Laryn
goscope 1926 xxxv 181

Orton H B Anterior Dislocation of the Atlas as a Cause of Inability to Swallow Solid Loods

Laryngoscope 1926 vxvi 188

Mosher reports two cases of evostosis of the cervical vertebrae causing difficulty in swallowing In the first case, that of a woman of 74 years the X-ray showed evostoses of the bodies of the fifth and suth vertebrae while in the second that of a young woman, it revealed evostoses of the bodies of

the sixth and seventh vertebræ

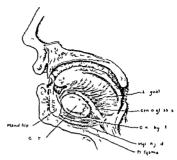
Orrow cites the case of a child of 3 verts who regurgitated or expectorated all solid foods as soon as they were given. The child had not been delivered with instruments, but it was claimed that the attendant in awaiting, the arrival of the do.tor retarded the birth of its head. The child was 11 months old before he was able to sit up and 7 or 8 months old before he was able to sit up and 7 or 8 months old before he was able to more of solication of the allas. The author reports the case becau e of the infrequency of this condution as a cause of difficulty in swallowing.

GEORGE R MCALLIFF M D

NECK

Eliason F L Inclusion Cysts of the Hyomandibu lar Region Thrip Ca 19 6 1 238

The author gives the embriology of inclusion this of the hyomandibular rigion. The first brin



Fi., 1 The sublingual type of cyst occurring above the genioh oid muscle

chial cleft locates cysts that appear in the aural submaxiliary sublingual and submental regions. The hinning of such cysts reproduces the structure of the ectoderm or entoderm. If the external grove fails to become entirely obliterated and closes only at the external surface an inclusion cyst will be the result. This cyst will be laterally placed and lined with produrm. If it ruptures externally or is apened a brinchial sinus (not histila) results. These cysts have a thick tough wall composed of all the skin

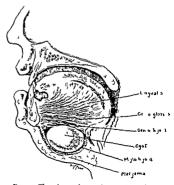


Fig The ubmental type of cost Note the genio hood mu cle above and the mylohood muscle below

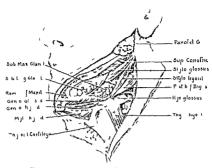


Fig. 3. The anatomical structures with which the development of the hyoman dibular cleft is concerned

layers and contain the products of skin activity namely sebaceous matter hair and desquamated on belief

If the ventral or unner groove fails to unite entire by a pharyngeal diverticulum results. If it unites only on the pharyngeal surface a branchial inclusion cyst is formed. The lining of this type of cyst is of entodermic origin and is composed of mucous mumbrane with a basement layer of columnar epithe lining.

These cysts have a thin friable wall and contain a mucoid substance lymphoid tissue is abundant and striated muscle mucous glands and islands of cartilage may be found

Sublingual cysts or midline cysts come from the ectoderm of the first branchial arch and lie at the base of the tongue above the geniohyoid muscle or between it and the mylohyoid muscle

The cluncal symptoms of inclusion cysts dep nd upon the position of the cyst. The mass causes a sense of fullness rather than true pain. Cysts of the aural type appear just below and in front of the ear while those of the submaullary type appears a gradu ally increasing swellings between the angle of the jaw and the hyoid bone. The sublingual type of cyst appears just beneath the mutuous membrane of the floor of the mouth. Cysts of the submental type cause no inconvenience but are extremely un sightly.

The author reports five cases of inclusion cysts in the hyomandibular region

HOWARD A MCKNIGHT M D

Beykirch A A Discussion of the Clinical Aspects and Histology of Struma and Their Relation ship to One Another on the Basis of the Struma Histology of Strumen 1921 (Klinik und Histology of Strumen 1921) (Klinik und Histology of Strumen 1922) (Strumen 1925) (Strumen 1922) (Str

The author reviews the clinical syndrome and the histology of 185 case of struma. The large follicular proliferating forms of struma are very common in Goettin, en. Most of the subjects are at the age of puberty. All of the other forms occur at a more advanced period of life. Frequently a mixed form with large and small follicels is seen.

In the choice of treatment (todane treatment or operation) the china il symptoms particularly those of hyperthy roddsm must be taken into consideration. The clinical symptoms of prohibrating struma are sometimes due to mechanical causes and at other times to iunctional disturbances (hyperthyrodsism). At the age of puberty nodine treatment must therefore be given only with great care. Operative procedures result with certainty in a reduction in the size of the gland without functional disturbances.

The Basedow struma and nodular struma belong to a more advanced period of life. In these types hyperthyroidism is less frequent. Everything indicates that hyp rthyroidism is by no means entirely dependent upon the thyroid gland other factors are involved. All in all the hereditary gotter anlage and the con tuttom and age of the struma.

are of importance Struma is responsible for a large number of syndromes and as regards its functional manifestations should be judged only from the complete picture presented in the particular case

Aleman O Two Cases of Anterior Mediastinot omy for Struma Intrathorax Acta chirurg Scant 1926 lx 135

The author reports two cases of intrathoracic struma with well marked symptoms of compression of the mediastinal organs. In both, the extirpation of the struma by the Sauerbruch Schumacher anterior longitudinal mediastinotomy was followed by a good result

Clute H M, and Mason R L The Medical Treatment of Hyperthyroidism Ann Clin Med 1026 iv 673

While it is generally admitted that the removal of part of the thyroid gland is the safest surest and quickest method of checking the course of hyper thyroidsm the authors emphasize the importance of intensive medical treatment before and after thyroidectomy. The high metabolic rate is best treated with rest. As persons with evophthalmic gotter do not adjust themselves readily to rest in bed they must be persuaded to control their cease less wasteful movements and excited conversation.

Next in importance to rest is diet. It has been estimated that a man with a metabolic rate of 50+ who is doing a moderate amount of muscular work requires 6 coo calories daily to maintain his weight. To furnish a diet of from 3 oo to 6 coo calories daily the patient should be given his favorite foods ally the patient should be given his favorite foods.

Iodine is the only drug of demonstrated merit tending to reduce the basal metabolic rate in hyper thyroidism. It should not be given in cases of ade noma.

A very troublesome sequela of hyperthy rodusm is auruchar fibrillation. In the authors clinic this condition has been found in about 55 per cent of the definitely toxic patients. Hamilton states that paroxy-mal attacks of aurucular fibrillation associated with thyroid toxicity cease permanently when the toxicity is corrected. This is true only of the purely thyroid heart and not of long established cardiac conditions. ARTWIR L StreePrize, M D

Musser J H Exophthalmic Goiter and Tuberculosis Ann Clin Med 1926 by 620

Primary tuberculosis of the thyroid gland is very rare after puberty thyroid tuberculosis is secondary to pulmonary tuberculosis. Tuberculosis is more pulmonary tuberculosis. Tuberculosis is more hyperthyroidism for tuberculosis. The author has seen six cases of tuberculosis which had been treated for hyperthyroidism. Symptoms common to both conditions are a loss of weight, fatigue de bility nervoisness and duarrhea. Anorexia is usually absent in hyperthyroidism but present in tuberculosis.

Hyperthyroidism is characterized by marked over action of the heart, a pronounced vasodilata tion, an increase in the metabolic rate, and a marked increase in the pulse pressure. In tuberculosis the pulse pressure is usually low and the temperature usually rises daily. In the diagnosis of tuberculosis the von Pirquet test is very valuable and the presence of crackling rales with granular breathing is suggestive.

ARTIGIE L SEREFFLER, M D

Koopman, J Conjugal and Luetic Basedow s
Disease (Ueber konjugale und luetische Base
dowsche Krankheit) Wien klin Wehnschr 1925
TXXVIII 1150

The occurrence of the same disease (cancer dia betes etc) in both husband and wife is so seldom observed that no conclusion can be drawn from it Nevertheless the author regards the case of conjugal Basedow's disease which he reports in this article as of importance because of the rarty of the condition in both husband and wife and because it affords an insight into the pathogenesis of certain cases

Koopman defends the not new but apparently little known theory of the occurrence of a luetic Basedows disease. This theory has received most attention in the French literature. According to Leonard 30 per cent of cases of Basedow's disease are of luetic origin. It may appear very early after the syphilitic infection (three months) or very late (twenty three years). Tabes and hereditary lues may also cause it. Therefore the Wassermann test should be made in every case of Basedow's disease.

In cases of luctic origin iodine has often an as tonishing effect. Luctic Basedow's disease can be quickly cured. Hirsch (Z)

Brodersen N H Tetany Following Operations on the Thyroid Gland (Tetanie nach Operationen an der Schilddruese) Norsk Mag f Laegevidensk, 1925 ixxxvi 1 93

In the period from January 1 1920 to June 30 1025 047 thyrodectomics were performed at the City Hospital of Drammen Tetany occurred in five cases In the 30r cases in which the operation was performed for exophthalmic goiter or adenoma tous gotter with hyperthyroidism tetany occurred in four (1 3 per cent), while in the 346 in which it was done for simple goiter tetany occurred in one 0.3 per cent. There were no deaths

Why the tetany occurred in these cases cannot be stated with certainty. In every case in which it developed it followed a radical operation in which only a small portion of the left lobe was left behind. In a few rare cases it appears to be an unavoidable complication of the radical operation. Three of the patients whose cases are reviewed were 21. 17 and 15 years of age a fact which possibly indicates the necessity for special care in operations on young persons. The chief remedy against tetany is calcium lactate. Parathyroid tablets are not at all certain in their effect. Konttrussex (Z)

Lahey F H The Transplantation of Parathyroids in Partial Thyroidectomy Surg Gynes & Obst 1920 vin 508

Since parathyroids are occasionally removed at operation and identified in the laboratory, they should be carefully searched for in the specimen removed at operation and if found transplanted

The most convenient site at which to transplant them is the belly of the sternomastoid muscle. Care must be taken to see that the cavity into which they are transplanted is dry JAIRS C BRASWELL M D

Simpson W M A Clinical and Pathological Study of Fifty Five Malignant Neoplasms of the Thyroid Gland Ann Clin Med 1926 by 643

Simp on presents a report on fifty five malignant neoplasms of the thyroid gland fifty of which were carcinoma and five sarromata. The cases in which these tumors were found constituted 4.93 per cent of a surgical series of 1.290 cases of non exophthalmic gotter No malignancy was found in purely exoph thalmic gotters. Seventy two per cent of the malignant tumors occurred in women. Sixty per cent were unsuspected before the histological examination.

Every hard nodule in the thytoid of a person over 30 years of age should be viewed with suspicion especially if there is a history of relatively rapid increase in the size and hardness of a previously quiescent gotter. In the advanced stages metas tasis to the lungs and bones is common.

In 30 per cent of the cases reviewed by the author the carcinoma was of the medulary type Tumors of this type grow with the greatest rapidity and frequently review and form metastases. In oper cent of the cases the tumor wis an adenocarcinoma and in 4 per cent of the scirrhous type. Sar coma of the thyroid conforms in its growth char acteristics to sarcoma arising elsewhere in the body.

Aprilor L. Superprize M.D.

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Pauli W. E. and von Redwitz E. Remarks on the Construction and Use of the Meyer Schlueter Sound (Bemerkungen zur Konstruktion und Verwendung der Meyer Schlueterschen Sonde) Dettische Zischer fehr 1025 CRUI 343

Paul and von Redutz recommend the sound devised by Meyer and Schlueter for measuring the electrical resistance of brain tissue in operations on brain tumors. According to their own experience in several cases and according to reports from America it is often of great value.

The authors have changed its construction so that the electrodes may be moved toward each other and it is possible by moving them to deter

other and it is possible by moving them to deter mine the extent of a tumor and to discover very small tumors. By the use of a head piece the opera tor himself can determine the resistance of the tis sues during the performance of an operation.

VON REDWITZ (Z)

Von Sarbó A A Cured Case of Fat Embolism of the Brain Following Fracture of the Leg and Simulating Progressive Paralysis (Ein gebeller Fall von Fettembole des Gehirns nach Unterschen kelbruch im Bilde der progressiven Paralyse ver laufend) Kin Wchnisch 1923 in 1918

The most important sign differentiating cerebral fat embolism following fracture of a bone from other cerebral conditions is the free interval between the injury and the appearance of the cerebral symptoms. Usually signs of fat embolism of the pulmonary capillanes such as a sticking sensation in the chest shortness of breath, and cough, occur first and from several hours to several days after the fracture there is complete loss of consciousness which occurs suddenly or is preceded by a stage of sleepiness. After severe symptoms of irritation the most vancel focal symptoms may be noted

The author reports a case of fat embolism of the brain following a complicated fracture of the leg in a man 56 years of age. The symptoms corresponded to those of progressive paralysis except that the negative result of the serological and spinal fluid evanimations eccluded parenchy matous sphilis. Undoubtedly, the frontal and parietal lobes were theily affected by the embolism. Such an assumption explains the facial paralysis on the left side (focus on the right side in the anterior central strus) paralaxia (supramarginal grays), the par arthma syllabaris, the verbigeration (third frontal gruss) and the ultimate disturbance of the total function of the frontal lobes the disonentation for place and time and the tendency of the patient to

play clownish tricks In the course of two months the symptoms slowly receded and a complete mental recovery resulted Lehrnbecher (Z)

Davis, L The Influence of Decompression Opera tions on Experimentally Produced Papillædema 1rch Surg 1926 xii 1004

In a large series of dogs Davis produced a most ingenious imutation cerebral tumor by introducing sterile agr capsules of agar into various portions of the cerebrum and cerebellum through small burn holes. When a subtemporal or suboccipital decompression was done immediately before or after the introduction of the agar, the animals did not develop papilliedema, and survived the operation for several weeks until they were sacrificed, whereas when decompression was not done they died within a few days.

In the case of 'tumors' of the cerebellum, the subtemporal decompression appeared to be quite as effective in preventing symptoms as the subtentonal decompression. The author questions the correctness of the current opinion that supraten tonal decompression is of no value in cases of subtentional tumor.

This study indicates that decompression will alleviate choked disk in cases of tumors of the brain Davis states expressly however, that he does not favor a palliative decompression if it is possible to localize and attack the original lesson

TRACY J PUTNAM M D

Winkelbauer A and Brunner, H The Treatment of Traumatic Frontal Brain Abscesses (Zur Behandlung der traumatischen Stirnhirnabscesse) Arch f klin Chur 19 5 cxxxvii 160

Seven cases of frontal brain abscesses are reported. The abscess was correctly diagnosed in five Psychic changes are of great aid in the diagnosis. They were noted in four of the authors cases. They consisted in a tendency to play clown ish tricks, a loss of ethical sense stupor, somnolence and a decrease in the perceptive powers. In four cases the diagnosis was further supported by very severe headaches and tenderness to percussion over the frontal bone.

The temperature and cerebrospinal fluid are not very characteristic. Dizziness and vomiting (a long time after the accident) occurred in only one of the authors' seven cases. The ophthalmoscopic findings are of greater significance. Papilloedem was found twice in five cases. In the authors' opinion the most reliable signs are the nature and site of the injury and the psychic changes.

The success of operative treatment depends upon an early diagnosis If the abscess is not recognized the formation of pacchionian bodies. The proliferation of arachnoid takes place at weak spots in the dura particularly preformed openings such as those for the passage of the vessels It is difficult to determine the cause of this proliferation. In one of the author's cases a purulent otitis was present

As the patients were all old persons it is prob able that there were mild processes of inflammation or irritation of the meninges congestion stasis and temporary changes in spinal fluid pressure but proliferation of the arachnoid alone could not cause the pseudo cyst. The orifice through which the arachnoid passes is plugged by it and spinal fluid cannot pass through it at least not with sufficient force to distend the dura mater. However when a vessel passes through the opening there may be enough space for the passage of spinal fluid especially when the size of the vessel is changed. The passage of spinal fluid is facilitated by obliquity of the course of the vessel In the cases reported this was marked. Changes in the pressure of the spinal fluid also are of influence in the production of these

None of the cysts reported had caused any symptoms This is not surprising as such cysts grow slowly and do not cause signs of compression because they are in communication with the intra arachnoid space Even when they are completely developed they do not crowd the epidural space because there is a limit to the capacity of the dura mater for expansion. Moreover, their elongated form makes them readily adaptable to the intra vertebral space AUDREY G MORGAN M D

Landelius E Experiences with Some Spinal Intradural Tumors 1cta chirura Scand 1026

In one case of intradural neuroma affecting the posterior nerve roots and one case of intramedullary tumor the author produced root pain in the lo ality of the spontaneous pains by increasing the cranial pressure during lumbar puncture by the Quecken stedt test viz compression of the veins in the neck

In the first case the only symptoms were root pains and the segment diagnosis was made altogether from the localization of the pains after their nature and localization had been corroborated by the Queckenstedt test

The author suggests that this observation may prove of value in the diagnosis of spinal intradural tumors at an early stage before the development of paraplegia

PERIPHERAL NERVES

Felix Willy Exercsis of the Phrenic Nerve in Pulmonary Affections (Die Phrenicus Ausschal tung bei Lungenerkrankungen) Erg bn d Chr u Orthop 1925 XVIII 690

This article is a review of the most important facts concerning the history anatomy and tech nique of artificial paralysis of the diaphragm. The author discusses the priority of you Goetze. In 1914 Friedrich recomm nded an approach to the dome of the pleura in order to rea h deep r afferent fib rs of then rive Kir char in 1920 recommended disruption of the nerve if possible b low its cervical roots. The suggestion of Walth r Felix made at about the sam time to approach the sub-lavian vein in order to disrupt the accessory phrenic lies also within the r alm of technical possibility. If the scalenus anti u mus le is followed downward it is usually possible to rea h w ll down to the vein Pulling upwird on the nerve stem may move the a cessory phr nic which passe in front of the vein

and thus identify it for division With full knowl dge of the so called radical phrenicotomy of von Goetze the work of Felix was completed in 1922 and contains the results of his research condu ted after 1919 on the anatomical experimental and clinical asp cts of the phrenic nerve and exeresis of this nerve. Up to 1023 von Goetze described his method as phrenicotomy plus division of th subclavius. On anatomical grounds th staff of the Munich chaic have been unable to recognize this pro edure as radical and have repeat eilly expressed this vi wount. It does not take into account the frequent variations of the phrenic on the other side of the subclavian nerve. Only since this criticism from the Munich clinic has you Goetze presented his procedure with a changed

technique (Surgical Congress of 1024)

The method he uses today is truly radical since he now divides not only the subclavian nerve but also other nerve branches which he in the vicinity and follow a similar course (von Goetze s sub lavian accessory roots) All argument as to priority is groundless since methods for the complete division of the phrenic were known before either the Felix or the you Goetze method appeared. It is emphasized that the operation though simple is associated with considerable danger because it is frequently per formed by poor surgeons. One of Friedrich's pa-tients died from air embolism in the internal jugular vein. In the Munich clinic there were two cases of air embolism with a favorable outcome Sauerbruch mentions among a total of 500 op ra tions two fatal hæmorrhages due to a simple phreni Mistakes have been made repeatedly in the identification of the nerve At the Munich clinic the sympathetic was divided once with a con sequent Horner syndrome The Sauerbruch clinic has received reports of seven injuries of the vagusone caused by a skilled surgeon-an injury of the thoracicus longus nerve with partial paralysis of the serratus anticus muscle and an injury of the thoracic duct and the œsophagus

At the Muns h and Zurich clinics there have been performed to date 250 phrenicotomies and exereses In no instance has there been any hæmorrhage which could be ascribed to the twisting out of the nerve Neither has the operation ever be a followed by the bursting of a lung abscess or the develop ment of a pneumothorax as reported by von Goetze

Both procedures for artificial paralysis of the dia phragm—von Goetze's operation and the exeresis are effective but exercise is technically more sim

ple

According to the findings of investigations made to date the effect of the permanent paralysis of the diaphragm on the function of important abdom inal and thoracic organs is quite harmless contention of the Sauerbruch school that phreni cotomy in general cannot be admitted to have an independent importance in the compression therapy of pulmonary tuberculosis is held to be correct con trary to the opinions of von Goetz and Frisch In sixty cases treated by phrenicotomy alone at the Munich clinic the operation was followed by rapid clinical improvement, but actual healing did not occur in any instance Complete disappearance of a cavity as seen by von Goetze is very rare and should not influence the general prognosis. At the Munich clinic the occasional arrest of expectoration with considerable diminution in the size of small cavities subsequent to paralysis of the diaphragm is ascribed to the mechanical displacement or obstruction of the cavity outlet

On the basis of his experience at the Munich clinic during the past ten years the author regards as of no importance the injuries supposed by Brauer to occur after permanent paralysis of the diaphragm in pulmonary conditions Exeresis is contra indi cated, however by severe cardiac pains. Whether long continued tachy cardia which has been noted occasionally after exeresis (in Munich, two or three times in 250 cases) is to be ascribed to the twisting out of the nerve or to the high position of the dia phragm, is still undetermined. The author believes the latter is responsible Emphysematous rigidity of the thorax is also a contra indication. The dan ger of spreading pus into the mediastinum by pull ing the nerve out in the presence of a tuberculous empyema is not to be feared if force is avoided. In several cases of bronchiectasis treated by artificial paralysis of the diaphragm at the Munich clinic definite improvement resulted but was only tem porary GRAF (Z)

Gerdely, J and Markovits S Clinical Lessons from 100 Operations on the Phrenic Nerve (Die klinischen Lehren aus 100 Phrenicus Opera tionen) Gyógyás al 1925 lxv, 922

Excress of the phreme nerve gives the best re sults in cases with the indications for pneumo thorax that is cases with a free thoracic cavity a freely movable diaphragm and for-all propagating and for the most part exudative caseous pullmonary processes In cases of basal or bilateral disease its results are less favorable

The curative effect of the procedure is due not only to compression but also to immobilization and the elimination of unilateral traction. It gives very excellent results when it is carried out simul taneously with artificial pneumothorax. Perma nence of the pneumothorax is assured by it

In cases of non tuberculous processes of the lower lobe (abscess bronchiectasis), it causes only symp tomatic improvement at the most. In empyema, it considerably reduces the size of the cauty.

Of eighty nine cases in which exercis of the phrenic nerve was done forty eight showed a good result sixteen, symptomatic improvement nine no change and four an aggravation of the condition. Twelve patients died. Wikki (Z)

SYMPATHETIC NERVES

Mandi F The Effect of Paravertebral Injections in Angina Pectoris (Die Wirkung der paraverte bralen Injektion bei Angina pectoris) Arch f klin Chir 1025 CXXVI 403

Following a brief discussion of the syndrome of angina pectors and the various theories as to the cause of the condition the author reports sixteen cases in which he made paravertebral injections of y per cent novocain or y per cent tutocaine solutions. The injections were made from the first to the fourth dorsal vertebra or at one or two of these points and 15 c cm of the solution were injected at each boint yo adrenalin was added to the solution

In twelve cases good results were obtained and in six of these the effect has been lasting. These results justify the inclusion of paravertebral injections among the therapeutic measures employed for angina pectoris. However the injections are recommended only for cases in which medical measures have failed

The effect of the injections depends upon the evclusion of the sympathetic paths the sensory supply of the heart and aorta. The author does not state whether the parasympathetic paths are also interrupted. The long continued effect of a single paravertebral injection (the injection was repeated in only one case). Vlandl explains by the assumption that the interruption of the sensory paths produced a marked disturbance in the interplay between the sympathetic and parasympathetics. The failure of the treatment in some cases he attributes to the choice of the wrong segment for the injection or the use of a faulty technique. In conclusion he states that when care is taken the procedure is without danger.

Melzner E An Experimental Contribution on the So called Periarterial Sympathectomy (Experimental Beitrag zur sogenannten periartenellen Sympathektomie) Arch f klin Chir 1925, cxxxvi 427

Following a penarterial sympathectomy on the renal artery of a dog the author was unable to find in the Lidney the slightest microsropic evidence of change. The examinations covered a period of from three to seventy days following the operation. The kidney with its extremely sensitive tissues remained practically unaffected by the apparently very marked changes in the peripheral circulation caused by the periarterial sympathectomy. Melzner says

How much less an effect can be expected in the extremities whose tissues have a so much grosser anatomical structure. He believes that his experiments prove again that the innervation of the blood vessels is segmental. STATU. (2)

MISCELLANEOUS

Poissadowa X Restoration of Innervation in Skin Transplants (Ueber die Wiederherstellung der Innervation bei Hauttransplantationen) Zen tralb! f Chir. 1015 in 2166

The author made clinical studies with regard to the restoration of innervation in them; cases of skin transplantation. In most of them a rhino plastic operation with the use of a pedunculated flap had been done. Previous to its separation the flap retained sensibility only in the vicinity of its pedicle and immediately after its separation it tost all sensibility. The first sensations to be noted after the transplantation were those of touch mesponse to pin purking P aim was felt only after a month. Sensibility began at the periphery of the population of the content at the rate of about 0 st to a comparation of the periphery of the center at the rate of about 0 st to a comparation of the peripher of the center at the rate of about 0 st to a comparation of the peripher of the center at the rate of about 0 st to a comparation of the peripher of the center at the rate of about 0 st to a comparation of the peripher o

In addition the author made histological investigations in a large number of cases with regard to the presence of nerve elements. He found that the growth of nerves runs about parallel with the in crease in sensibility. Even after a long time the flap had very few nerve fibers as compared with normal skin. Medullary nerve fibers were found in only one case and nerve end apparatus were not demonstrable even at the end of a year.

VOLLHARDT (Z)

Boyd W Three Tumors Arising from Neuro blasts Arch Surg 1926 xm 1931

Three cases of tumor in children are reported. In the first case the origin of the neoplasm appeared to be in the medulla of both suprarenals and there were metastases in the liver lymph glands into another curanium. The tumor was composed mainly of well differentiated cells together with small more priming the cells and bundles of neurofibrils but without rosettes.

In the second case there was a ganglioneuroma arising in the gangha of the left abdominal sympa thetic chain and associated with metastases in the ribs and cranium and maldevelopment of the left sunrarreal medulla.

In the third case a neuro epithehoma of the retina had metastasized to the liver and other viscera

All three neoplasms may be regarded as develop mental tumors arising from neuroblasts at different stages of development. The first two spread apparently by way of the lymphatics and the third by the blood stream. In all the striking metastases were in the cranum.

SURGERY OF THE CHEST

TRACHEA, LUNGS, AND PLEURA

Guy, J and Elder, H C Radiographic Exploration of Broncho Pulmonary System by Means of Lipiodol Edinburgh M J 19 6 ns xxxii 269

For roentgenographic exploration of the broncho pulmonary system the authors inject lipiodel by the intercricothyroid route following preliminary anaesthetization of the parts. They then guide the lipiodel into the portion of lung to be studied by having the patient assume the most favorable position therefore.

Fluoroscopy is used to ascertain whether this has been accomplished, and roentgenograms are made as quickly after the injection as possible. Such complications as have occurred have been of little consequence. In the authors' opinion the results justify wide application of the method in the diag nosis of bronchopulmonary affections.

ADOLPH HAPTUNG, M D

Clerf L H Foreign Bodies in the Tracheobron chiai Tree A Report of Cases in Which Bron choscopy Was Not Done Laryngoscope 1926 xxvv1 206

The author discusses the probability of the spon taneous expulsion of a foreign body from the tracheobronchial tree. He states that before the use of the \(\lambda \) ray statistics which showed the incidence of such expulsion to be 46 per cent were mileading because expulsion was then one of the chief indications of a foreign body Jackson estimates the incidence of spontaneous expulsion as between 2 and 3 per cent.

Clerf advises against inversion of the patient because of the danger that the foreign body may become lodged in the glottis and produce asphyvia

He mentions the many bends in the bronchial tree its entrance narrowed by the glottic chink tracheal reflevion tending to close the glottis and the force of gravity and anatomical and physic logical factors working aguinst spontaneous expulsion

The probability of spontaneous expulsion is in fluenced also by the nature of the foreign body Theoretically, sharp clongated bodies will never be coughed up. They usually he point uppermost and offer little surface to the expiratory blast Heavy metallic objects especially if round tend to seek, lower portions of the tree and to block the bronchus Peripheral to them air is absorbed and a negative pressure is produced Provimally, a ring of inflammatory tissue holds them down Expulsion of vegetable substances is rare probably because of the swelling of the glotius caused by their ten

dency to lodge in the subglottic space and because of the large quantity of secretion caused by the septic bronchits and laryngeal spasm. The longer a foreign body has been in place the less the proba bility that it will be coursed up.

Instances of the spontaneous expulsion of practically every type of foreign body are cited, but Cleri emphasizes the fact that these are exceptions and advises strongly against waiting for such expulsion. In conclusion he quotes lackson as follows

'We do full justice to our patients when we tell them that while the foreign body may be coughed up it is very dangerous to wait, and further, that the difficulty of removal increases with each hour the body is allowed to remain'

JEROME R HEAD, M D

Clerf L H Bronchoscopic Aids in Thoracic Sur gery Surg Clin N Am, 1926 vi 281

Clerf states that bronchoscopy, while of great value in the treatment of acute suppuration in the upper and middle lobes of the lung, cannot take the place of surgery in the treatment of chronic suppuration with extensive bronchial dilatation and fibrosis or large abscess cavities situated peripherally

He reports the case of a 17 year old grl with a history of chronic coughing and the expectoration of from 40 to 90 c cm daily of thick purulent sputum. The pathological changes were limited to the right lower lobe. Weekly aspirations resulted in a decrease in the amount of sputum and releved the fetul odor. Pneumography showed marked contraction of the lower right lobe and marked dilatation of the bronch down to the terminal ends, little general condition has now improved to such an extent that surgical intervention is feasible.

Clerf reports also the case of a 33 year old man with cough fever, and profuse expectoration due to pathological changes in the right lung Aspiration has been done six times. The first bronchoscopic examination showed pus coming from the onfices of all three lobes of the lung. After three aspirations the upper lobe remained clear and the condition of the middle lobe was improved, but the amount of pus remained the same and the loss of weight con Pneumography revealed a rather large cavity in the distribution of the posterior branches of the right lower lobe and involvement of a con siderable portion of the middle lobe. As this collection of pus is not favorably situated for spontaneous drainage through the natural passages, external surpery will be necessary

Pneumography is a very valuable aid in the localization of a pus collection and the determination of its extent

IRA FRANK M D

Dworetzky J P Artificial Pneumothorax in the Treatment of Pulmonary Tuberculosis and Its Effects on the Larynz Ann Otol Rhinol & Laryngol 1926 xxxv 42

The author observed that none of his patients with pulmonary tuberculous who were treated by artificial pneumothorax developed lary ngeal tuber culosus and that pre custent laryngeal lessons were either cured or benefited by the collapse of the lung in contrast to this finding he and others have observed that approximately 35 per cent of persons with pulmonary tuberculous who are not treated by artificial pneumothorax develop laryngeal tuberculous.

undertuness sunable to discover any statistics in the first inc via sunable to discover any statistics in the first inc via the author who letters to numerous unthorities inquiring as to their observations on this unit of the control of the control of the via the property of the control of

The beneficial effect of artificial pneumothoray on larvingeal lesions is attributed to the improvement in the general condition caused by the collapse of the lung as the result of which the larying is mologier continually bathed with bacilli laden sputum and is relieved of the irritation caused by the cough

Feiermann J The Care of the Bronchial Stump Following Amputation of the Lung (Zur Ver sorgung des Bronchalstumples nach Lungen amputation) 4rth f kin Chir 1925 exxxvi 300

In their, operations on dogs the author tested the three methods of treating the broachal strump after amputation of the lung namely the method of Tregel that of Frederich and that of Meyer. In Meyers method the stump is crushed and ligated and then burned by peribronchal sutures similar to Lembert sutures. The author considers thus method the best but in buring the stump he uses a suture similar to the one used for the stump of the appendix which is known as a dagonal suture.

Recently in doing a resection of the lung in three dogs he divided the bronchus according to the method of Melaikoff and united the two branches end to end. The uniting sutures were performedial and similar to Lembert sutures. Dogs operated upon in this manner survived for almost three months whereas those operated upon by the methods previously used survived at the longest for only seven days.

In a modification of this method which has been used by Melnikoff in investigations on the cadaver the smaller bronchips is fitted into the larger one for a distance of from 1 to 15 cm after the removal of the mucosa.

The author considers the problem of the care of the bronchial stump as solved experimentally but reminds us that the condition in a healthy animal differs from that in the diseased human organi m Glass (Z)

Miller W S A Study of the Human Pleura Pulmonalis Its Relation to the Blebs and Bullæ of Emphysema Am J Recuternel 10 6 x, 100

During the past year several lungs used in studies of pulmonary tuberculosis have presented a peculiar unnilled appearance of the pleura over more or less circular areas from 1 to 5 cm in diameter. No adhesions were attached to them. The pleura was freely movable over the underlying pulmonary sub stance a fact which tended to differentiate the blebs from emphysematous bullæ. With a view toward explaining this finding a study was made of the pleura with spe ial reference to the elastic fibers. It was found that in normal pleura anas tomosing fibers extended between the network of elastic fibers in the walls of the alveoli and the elastic fibers within the areolar and elastic lavers of the pleura whereas when a bleb was present these anastomosing fibers were ruptured and the pleura was separated from the walls of the under lying alveoli

In the cases studied blebs were associated with a well marked emphysems. Rupture of the walls of a dilated al wellux undoubtedly allowed the art to enter the areolax tissue and dis cet the pleura from the underlying lung. Its extension may be arrested where the septa marking out a secondary lobule join the pleura or at may extend over a number of secondary lobules.

During life the cavity of a bleb is filled with air. The negative pressure within the bloar cavies it to project beyond the level of the surrounding pleara. With the cessation of respiration there is no longer an influx of air to keep the thin walled space distended and when the thorax is opened at an autopsy the negative pressure and the bleb is practically emptied of air this giving rise to the wrinking of the plears which has been described.

In conclusion the author suggests that some of the annular shadows mentioned in roentgen literature may have been due to blebs

ADOLPH HAPTENG M D

Carlson E and Bunnell S Can Pleural Effusions Following Thoracotomies Be Prevented by Arts ficial Pneumothorax? Arch Surg 19 6 xii 919

The authors have found that the dog can live for a short time with considerable positive intrapleural pressure Eventually however it succumbs to ev haustion

Fleural effusion does not result un arrably when the pleura is damaged. In fact in the authors experiments it was difficult to discover a method of constantly producing fluid. Merely denuding the chest wall of the pleura was unsuccessful Even when, in addition to stripping of the pleura over a considerable area, a rib was sawed loneitudinally so that raw bone marrow was exposed to the aspirating effect of the negative pressure, no fluid resulted Cauterizing by heat and then immediately curetting an extensive area of pleura produced fluid in some cases, but in others produced it in only small amounts or not at all However, when cauterization by heat alone was re sorted to, as in the last five experiments, considerable amounts of fluid resulted

Details of the operative technique and two tables showing its results are given. The following con

clusions are drawn

T If the artificial pneumothorax is under suf ficient pressure to equal the dog s greatest inspira tory effort the aspirating effect in producing pleural effusions will be prevented Such a pressure is plainly incompatible with life, as it prevents air from enter ing the lungs If even much less pressure is used the dogs will die from interference with ventilation The experiments indicate that not enough pressure can be used in artificial pneumothorax either to pre vent or to lessen the formation of pleural effusion which so frequently isopardizes the results following thoracotomy

2 The old procedure of producing adhesions between the visceral and parietal pleura, which was advocated by Sauerbruck and others gives better results Aspiration of all the air following tight closure of the chest wall and early and re peated aspiration of any fluid formed is therefore in The fixation of the visceral pleura to the thoracic wall by fine catgut sutures might assist in this process

3 Pneumothorax favors the increase and spread of pleural infection

4 The danger from excess of pressure of pneu mothorax in healthy, normal persons with a normal mediastinum is by no means of minor importance CARL R STEINKE M D

ŒSOPHAGUS AND MEDIASTINUM

Clerf L II Cicatricial Stenosis of the Œsophagus Surg Clin N Am, 19 6 v1 273

A cure of cicatricial stenosis of the ecophagus depends on the maintenance of nutrition and the use of a safe and effective method of dilatation The fluoroscope, \ ray and cesophagoscope should be used to differentiate the condition from malig nancy other forms of resophageal disease and aneurism The most common cause of cicatricial stenosis is the accidental ingestion of lye. Three cases are reported

The first was that of a 2 year old child who had swallowed lye four months before its admission to the hospital For four days the patient had been unable to swallow his saliva. In the author's opinion, the administration of fluids by proctocly sis and hypodermoclysis, and the performance of a gastrostomy followed by diagnostic asophagoscopy

and possibly retrograde esophagoscopic bouginage should result in a cure

The second case was that of a man 34 years of age who had had difficulty in swallowing for seven months The Wassermann test was 4 plus Exam ination revealed evidence of extensive chronic exophagitis and a tight stenosis 27 cm from the teeth A gastrostomy was done and a string placed by retrograde esophagoscopy Dilatation will be carried out twice weekly until a No 30 French bougie can be drawn up readily The patient will then be taught to swallow a woven silk bougie the size of which will be gradually increased to Size 40 As luetic strictures have a tendency to contract. the dilatation must be long continued

The third case was that of a woman 60 years of age who drank lve five months before she was seen by the author The X ray showed obstruction at the level of the suprasternal notch and also 8 cm above the esophageal hiatus. As the patient's state of nutrition remained fair a gastrostomy was not performed Peroral esophagoscopic bouginage was done at weekly intervals. The upper structure was rapidly dilated to admit a 5 mm full lumen esophagoscope and the lower stricture dilated with flexible tip Jackson bougies IRA FRANK, M D

Reinecke R Report of an Unusually Large Diverticulum of the Œsophagus Adherent to the Pleura, and Its Surgical Treatment (Selten grosses pleura adhaerentes Œsophagusdivertikel und seine operative Behandlung) Fortschr a d Geb d Roentgenstrahlen 1925 XXXIII 949

The author reports the case of a man 44 years of age who had an unusually large diverticulum of the esophagus which penetrated deeply into the thorac ic cavity. As feeding through a Witzel fistula for twelve weeks did not improve the patient's poor condition the one stage radical operation was per The diverticulum was approached from the right and the back. After subpenosteal resection of the ribs, an extrapleural exposure of the pos terior mediastinum under positive pressure accord ing to the method of Enderlen afforded a very good The thick firm diverticulum which did not contract after the separation of the adhesions was invaginated and doubly sutured over and the flap of skin muscle and soft parts then completely closed Death occurred suddenly a day and a half

Autopsy revealed partial pneumothorax on the right side posteriorly adhesions between the lung and pleura and a firm hamorrhagic infarct the size of a pigeon's egg in the left lung GRASHEY (Z)

Dislocation of the Larynx and Melnikoff A Trachea in the Extirpation of Tumors of the Cervical Portion of the Œsophagus (Zur Frage der Larynx und Tracheadislokation bei Geschwulstextirpation in cervicalen (Esophagus abschnitt) Zenirulbl f Chir 1925 lii 2479

Carcinoma of the upper portion of the cesophagus often involves the posterior wall of the larvny and trachea In the removal of the upper portion of the esophagus in such cases it is necessary to resect the entire larvny and a portion of the trachea Because of the extensive mutilation caused by such a procedure the author has worked out on cadavers and dogs an operation in which by simultaneously dislocating the larynx and trachea he removes only their posterior wall with the tumor The larvny and a part of the trachea therefore remain connected with the tissues and vessels of the right side of the neck

The defect is then covered with flaps of skin The lumina of the trachea cesophagus and pharynx are first sutured into the skin. At a subsequent operation the larvny and trachea are replaced in their former positions and united above with the pharynx and below with the trachea. This is best done at the time a plastic operation is performed to restore the esophagus

The author hopes by this operation to preserve all the functions of the voice completely

DENCES (Z)

MISCELLANEOUS

Butler P F and Habbe J E Problems in the Diagnosis and Treatment of Metastatic Tu mors in the Chest Radiology 1026 vi 400

While metastases of malignant tumors to the abdominal organs spine and long bones may be symptomless they are more frequently associated with ascites nerve root pains or spontaneous fractures Silent metastases are probably asso ciated more frequently with secondary new growths in the chest than with those in any other region

The majority of patients with well advanced pulmonary metastases are free from symptoms In order to avoid unnecessary and even harmful operations in such cases greater cooperation is necessary be tween the surgeon and radiologist

Not all cases of metastatic malignancy in the chest are suitable for radiation therapy but when indicated it usually causes marked amelioration of the symptoms and a temporary remission of the STANLEY I SEEGER M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R Experimental Results in the Use of Dead Fascia Grafts for Hernia Repair Ann Surg 1926, lxxiii 523

The work of Sencert and Nageotte on the trans plantation of dead tissue is reviewed. In twenty one operations on cats and dogs, Koontz used grafts of dead fascia which had been preserved in 70 per cent alcohol for from three to twenty one days. Auto grafts isografts, and grafts from different speciewere employed. The animals were sacrificed from two to seven months after the transplantation. All showed firm union between the dead graft and the living fascia and no evidence of obstruction. Micro scopic examination revealed a close intermingling of fibers.

Large ventral hernix were produced in dogs and completely repaired by dead fascia grafts

Heteroplastic grafts took just as well as homo plastic grafts

The article contains a number of excellent illus trations

WILLIAM I PICKETT, M D

Weeks A, and Brooks L. The Treatment of Acute Peritonitis California & West Med 1920 XXIV 622

The advisability of drainage in acute peritonitis has been discussed for many years, and although many surgeons now use it less frequently than formerly, the authors believe it is often indicated It aids in removing the towns and favors the evacuation of secondary abscesses through the drainage channel Nothing should be given by mouth as it is necessary to reduce peristalsis to the minimum

Wet dressings as hot as the skin will bear should be applied over the entire abdomen. Abdominal distention is relieved most safely by tap water enemas or colon irrigations

It is advisable to give a sufficient quantity of opiates to relieve the pain but a quantity sufficient to keep the patient narcotized will paralyze the bowel and reduce the oxidative processes

Gastric lavage at intervals of three or four hours is used when the intestinal contents are regurgitated into the stomach. A duodenal tube may be kept in position for some time by strapping it after it has been properly passed. By this procedure the patient can take a considerable quantity of water into the stomach. Frequent gastric lavage begun early is essential. Five per cent sodium bicarbonate and 5 per cent glucose are given by proctoclysis as a routine and the flatus is removed by colonic irrigations. If an insufficient quantity of fluids is absorbed in this way, from 1 yoo to 2000 ccm of

normal salt solution are given beneath the fascia lata and 1 000 c cm of 10 per cent glucose solution are given intravenously once or twice daily

In cases with excessive vomiting and resulting alkalosis large quantities of sodium chloride or 50 c cm of a 5 per cent calcum chloride solution are given together with 1 000 c cm of a 10 per cent glucose solution administered intravenously, and from 1 500 to 2 000 c cm of salt solution are nijected into the muscles, the bicarbonate solution then being omitted from the proctoclysis

It is necessary in these cases to keep up the body fluids so that the blood can carry oxygen in sufficient quantities to give glucose to protect the liver function to keep up the chlorides and to maintain the stomach at absolute rest so that the bowel will be placed at rest

The authors report a number of interesting cases, giving the history and treatment in detail Recovery resulted in all HAROLD M CAMP, M D

Steinberg B, and Ecker E E The Effect of Antiserum Against the Coli Soluble Toxic Substance of Bacillus in Bacillus Coli Peritonitis J Exper Med 1026 vlin 443

The authors carried out experiments on rabbits to determine the role played by toxins in pertionitis and to elaborate an antitoxin of the bacillus coli Injections of the toxins of the bacillus coli obtained by centrifugalizing a beef broth culture and destroying any bacilli remaining in the supernatant fluid caused pertonitis and death

An antiserum against the soluble toxic substance of the bacillus coli was elaborated from rabbits which were injected intravenously with the supernatant fluid of centrifugalized young cultures of the organism. When this antiserum was given intravenously to twelve rabbits immediately or half an hour after the intrapentoneal injection of five times the usual lethal dose of bacillus coli ten of the animals survived. I Edward Bushow, M.D.

Sicard Robineau and Lichtwitz Reentgeningraphic Shadows Suggesting Calculi in Tuberculous Pelviperitoritis (Ombres radiographiques pseudo-calculeuses symptomatiques d'une pelvi péritorite tuberculeuses) Bull et mém Soc méi d hép de Par 1026 xili 127

A woman 35 years of age entered the hospital complaining of sciatica and pain in the right lumbar region. Several years previously she had fever and became emaciated but did not cough or expectorate. Except for this attack, she had always been well. At the time she entered the hospital her temperature was normal and her general health excellent.

20 O1

On \tag examination the spinal column was found normal but the rontigenogram showed two large shadows in the pelvis which suggested bladder stones. One of these shadows was in front and to the right of the last sacral vertebra. It was the form and size of a pigeons e.g. and very much darker than the sacrum. The other was to the left of the fourth sacral vertebra and about the same density as the sacrum. The physical and roentgen examinations of the lungs showed nothing abnormal Cystoscopy revealed congestion of the bladder but no stone.

At laparotomy a mass was removed from the pelvis. In this mass there were numerous caseous abscesses some zones which were soft and other zones which were clerotic. Histological examina

tion revealed tuberculosis

The roentgen spots described are often seen in caseous processes in the lungs but are rately observed in tuberrulous peritonitis because of the opacity mobility and length of the intestine and the extent of the peritoneum. They can be deterted in pelivperitonitis because the pelivo peritoneum in the pouch of Douglas is out of the way of the intestines.

**APER'Y G MoreaM M D

Cutierrez A Mobilization of the Root of the Nesentery Its Surgical Value (Considerationes accerted to amount agreement of a result of the Root of the Nesenterio su valor quirurgico) Rev de cirug Buenos Aires 10 6 v 65

To trach the lumbosacral sympathetics retropersioneal tumors and stones in the ureter in the region of the sluc vessels the author makes an incision slightly below and to the left of the root of the mesentery and displaces left after by blunt dissection upward and to the right. This exposes the structures in the right lumbar region as far as the lower border of the third portion of the duo denum

By pulling the great vessels over to the left toward the midline the nght lumbar sympathetic trunk may be reached and by prolonging the in casion at the lower end slightly to the left and displacing the vessels to the right the left lumbar sympathetic trunk is exposed. To reach the sacral trunk it is necessary only to continue the lower end of the incision downward.

of the technique practically unnecessary

IOHN W BRENNAN M D

JOHN W BRENNAM M D

GASTRO INTESTINAL TRACT

Dieterich W and Rost F The Effects of Roent gen Ray Irradiation upon the Gastric and In testinal Secretions (Ueber das Verhalten der Magen und Darmsekretion bei Roentjenbestrah jung) Strahlentherapte 1925 zu 708

To determine the effect of roentgen ray irradia tion upon the secretions of the stomach and intes tine the authors carried out experiments on dogs, using a very penetrating ray so that the deep dosage was between 20 and 22 p per cent. The tension of the apparatus ranged from 180 000 to 200 000 volts. The size of the field was 20 by 25 cm and the cur rent was between 25 and 30 ma. A filter of 6 p km of zinc and 3 mm of aluminum was used. The portions of the body not to be irradiated were well protected.

It wa found that neither massive nor intense irradiation of the head or the lower portions of the body caused any noteworthy decrease in the acid or ferment content of the gastne or duodenal secretions. An occasional increa e in the acid values and the pepsin content of the ga the secretion which was noted after the lapse of weeks could not be ascribed to the irradiation with certainty. Neither did direct irradiation of the stomach with heavy doses result regularly in a decrease in the acid or ferment values.

Surgeo (2)

Von Stapelmohr S. A (ase of Diffuse Acute Phleg monous Streptococcus Gastrilis Diagnosed During Life Cured with Hourglass Stomach (Ueber enen Fall von in vivo diagno tizierter dif fuser akuter phlegmoneser Streptokokengastrit Heilung mit Sanduhrmagen) li sen klin fickn schr 1025 xxxin 1025

The author reports a case of acute phlegmon of the stomach a condition which is very seldom diag nosed or operated upon. The patient was a woman 45 years of age who had previously suffered with symptoms resembling those of gastric ulcer and for two days had had a temperature of 39 degrees C associated with very sever, pan and protective tension in the region of the stomach. The rest of the abdomen was negative and the general condition good. After the disappearance of the abdom inal tension a hard mass was palpable in the left hypochondrum

A laparotomy performed on the muth day under the diagnosis of infected paneratic cyst reveiled a tumor like phlegmonous inflammators infiltration of the transverse mesocolon gastrocolic ligament transverse colon and omentum which extended upward to the endematous stomach which showed similar changes. After separation of a few loops of the ability of the colonial properties of primary closure of the ability of the colonial properties o

When the patient was examined five years later she was free from symptoms but chemical examination revealed absence of free hydrochloric acid in the stomach and roentgen examination showed on the lesser curvature an hourglass constriction about the width of a finger

Koent (*/)

Gmelin E The Diagnosis of Syphilis of the Stom ach (Zur Diagnose der Magenlues) Peter klin Chir 1925 exxxis 597

With the exception of the rectum the gastro intestinal tract is very rarely involved by syphili In the last 10,000 autopsies at Eppendorf, not one case of syphilis of the stomach was found, and in a period of forty years Fraenkel saw only four In two of the cases seen by Fraenkel the small intestine was also involved

A clinical diagnosis of syphilis of the stomach cannot be made with certainty but the presence of the condition may be suggested by the history the Wassermann reaction and the results of specific treatment. The most important sign is anacidity

or hypacidity

In two cases which came to operation on Sudeck's service under the diagnosis of ulcer and carcinoma respectively a dense infiltration suggesting an inflammatory process was found. This area was not sharply delineated from the normal tissue. Macro scopically, the resected specimen showed multiple infiltrating ulcers and microscopically an infiltration of the submucosa by plasma cell and lymphoid elements and occlusion of the lumina of the blood vessels by cellular maternal.

Specific treatment is recommended. When the diagnosis is first made during the course of an operation, resection of the affected portion of the

stomach should be done

Schmid O The Condition of the Lagus Nerve in Cases of G-stric and Duodenal Ulcer (Uebr das Verhalten des Nervus Lagus bei Ulcus ventri culi und duodeni) 13 sen med 11 chnschr 1925 1xx 1904

Bergmann first suggested the spasm or nerve origin of ulcer in 1073 His theory was based on the observation that persons with gastric or duodenal ulcer show signs of a disturbance of the sympathetic nervous system. He concluded that the primary condition is probably a reflex irritation of the vagus nerve which causes a spasm of the muscula ture of the walls of the stomach. Reference has been made also by mimerous other writers to a relationship between disturbances of the vagus and ulcer of the stomach.

Experimental work on the subject however has given very divergent results which do not by any means always support the neurogenic theory. To prove this theory it is necessary to demonstrate changes in the vagus in cases of ulcer. In thirty cases of gastric or duodenal ulcer in which the vagus nerves were examined by the author they showed no important differences from those in the control cases. None of the findings indicated dam age to these nerves with certainty. The author therefore concludes that there is no anatomical basis for Bergmann's theory of ulcer.

HIRSCH (Z)

Delore \ Mallet Guy O and Vachey A Multiple and Recurring Forms of Ulcer of the Stomach (Les formes multiples et recidivantes de l'ulcère de l'estomac) Lvon chir 19 5 xxii 620

Chronic ulcer of the stomach may be considered a local lesion subject to cure by local excision. For

ulcers of the lesser curvature excision is the primary treatment. For ulcers of the pylorus excision is secondary to gastro enterostomy and, after the failure of gastro enterostomy, is necessary to effect a cure. The late results are excellent. The study reported in this article was limited to the multiple and recurrent forms of ulcer constituting an "ulcer disease of the stomach. The treatment of choice for this condition also is surgical.

The following types of cases are distinguished (t) those in which multiple ulcers (usually two) develop simultaneously or in succession (2) those in which after the cure of an ulcer by gastro enterostomy a new ulcer appears in a different location and (3) those in which an ulcer develops at the site of a resection (this can be properly called

a recurrent ulcer)

The description of the pathological anatomy is bused on forty cases. In only seven of these did the busers occur simultaneously in the same region. This incidence is probably abnormally low because the authors have usually found several ulcers in the same specimen often a large one surrounded by several lesser ones. In thirty three cases ulceration occurred at the pylorus and on the lesser curvature and in two at the pylorus and on the antenor wall Frequently the pylorus lesson is the older of the two as shown by the progress of healing. Only once was the reverse found true

A clinical diagnosis of multiple ulcer should not be made from either the history or the physical examination except in cases of hourglass stomach

combined with pyloric stenosis

When the ulcer's occur in the same region, they may be uidely excised. After wide excision of an apparently isolated lesion, examination of the specimen not infrequently reveals the more complicated pathology. When excision necessitates a pylorectomy the operation should be performed in two stages.

An ulcer of the pylorus associated with an ulcer in the body of the stomach neither of which is causing stenosis, is usually best treated by simple gastro This may be expected to cure the enterostomy lesion of the pylorus and favorably influence the lesion in the body. A wide excision including the pylorus and enough of the body to include the other ulcer is the operation of choice, but usually the pathological changes render the operation unjustifiably long and complicated Under certain cir cumstances a gastro enterostomy may be combined with excision of the ulcer of the body Occasionally, when there is reason to believe that the lesions are tuberculous surgical treatment is contra indicated because of the high mortality of even gastro enterostomy

Pyloric stenosis with an uncomplicated ulcer of the lesser curvature is an absolute indication for gastro enterostomy. If the lesions prove intract able a secondary resection is indicated

In cases with a pyloric and a midgastric lesion the latter alone producing stenosis, it is best to 204

resect the entire lower portion of the stomach to a sufficient extent to include the midgastric lesion Because of the patient's poor condition a prelim inary inastomosis of the upper pouch and the jejunum may be necessary When the patient can withstand only the simplest of operations a gastrostomy may be performed and the tube passed into the duo denum

A double stenosis calls for radical removal of both lesions unless the general condition forbids it or the lesion of the body is too high. Under the latter circumstance a gastro enterostomy with or without

a gastrogastrostomy is performed

In the same class with these complex lesions are the ulcers which develop in another location after the cure of a pyloric ulcer by gastro enterostomy When the secondary ulcer is in the jejunum it is usually ascribed to the technique of the gastro enterostomy trauma silk sutures or hæmorrhage This complication is more common than is generally supposed It is due not to technical errors but to an ulcerative disease of the stomach a condition often associated with tuberculosis. The secondary ulcer may develop also in the lesser curvature in spite of a gastro enterostomy. The treatment is resection

An ulcer recurring at the site of a resection is rare It is the more rare the more extensive the resection The best prevention of recurrence is rigorous post

operative medical treatment

The author performs the Billroth II operation almost exclusively He finds that the Pólya opera tion kinks the intestine in spite of all precautions and the Pean procedure places the anastomosis in the area from which the ulcer have been resected ALBERT T DE GROUT M D

Amberger Perforation of Gastric and Duodenal Ulcers (Ueber Perforation von Magen und Duo denalge chwueren) Zis hr f aer il l'ortbild 1925 XXII 545

Like others Amberger has observed an increase in the number of cases of perforation of gastric and duodenal ulcers in recent years. During the eleven years from 1008 to 1010 he saw eighteen while in the four years from 1919 to 1923 he saw thirty nine In both periods go per cent of the patients were males and most of the ulcers were situated in the vicinity of the pylorus so that it was often difficult to determine whether they were in the stomach or the duodenum. The season of the year and trauma had no part in their causation. It is problematical whether the difference in the foods ingested or the widespread use of micotine is responsible for the increase

Since the prognosis is favorable only in the first twelve hours an early diagnosis is important. This is not difficult if the possibility of perforation is borne in mind. In doubtful cases it is better to do one laparotomy too many than one too few

The treatment must be surgical In his first cases Amberger merely closed the perforation by

suture but in his last twenty eight cases he did a posterior gastro enterostomy with the modification of Kausch The total mortality was 37 per cent which was extremely low. According to Amberger the mortality depends less upon the nature of the surgical procedure than upon the length of time that elapses between the occurrence of the perfora tion and the operation SIMON (Z)

Berner J II Internal or Surfical Treatment of Bleeding Gastric Ulcer? (Interne oder chimir gische Behandlung blutender Magengeschwuere?) Norsk Wag f Laegeridensk 1025 IXXXVI 1320

During the period from 1914 to 1923 the author treated 126 cases of gastric and duodenal hæmor rhage Thirts eight of these he excludes from this review because the bleeding was mild and not asso cinted with marked anamia. In the eighty eight others there were thirteen deaths a mortality of 14 6 per cent The patients who died ranged in age from 7 to 63 years Eight were females Ten cases came to autopsy In no case of ulcer was there a perforation

This series of cases shows that death due to bleed ing from an ulcer is very rare. Hæmorrhage from other causes seems to be fatal more frequently Three of the deaths in the author's cases were due to varicose gastric hamorrhage associated with liver disease one was due to hamorrhage caused by a carcinoma and two resulted from hemorrhage due to a harmorrhagic diathesis caused by infection (leukamia) Of these cases none could have been cured by operation. An ul er was found at autop y in only four

The internal treatment of bleeding gastric and duodenal ulcer gives such good results so far as life is concerned that surgical measures are not neces At any rate when a patient is moribund the case should not be turned over to the surgeon in order that if death follows a futile operation the surgeon may share in the responsibility. Instead it would be better to adopt Fin terer's practice of operating in every case of bleeding gastric ulter

KORITZINSKY (Z)

Ochnell H Experiences with the Parenteral In jection of Albumin in Gastric Duodenal and Jejunal Ulcers (I fahrungen ueber paren terale Liweissbehandlung bei Magen Duodenal and lejunalulous) Stenska Lackartidningen 10 5 TTII 807

Since 1923 the author has treated thirty one cases of ulcer with novoprotein. Twenty nine were ambulatory cases. The reactions were not as severe as those described by Cerman physicians

In the cases of Group 1-those not previously treated for ulcer-the treatment resulted in a sub jective cure in fifteen and failed in two. In Group 2 -cases in which an ulcer diet had been given pre viously -it gave a subjective cure in seven and failed in three Only four cases showed a recurrence after two months

Important for the success of protein therapy are dietary measures and rest after meals. Ambulatory treatment is to be recommended only for patients

whose living conditions are good

The decision as to the effect of novoprotein treat ment must almost always be subjective. While this treatment contributes toward a cure in a cer tain percentage of cases it does not by itself constitute an ideal method for the definite cure of ulcer. Hereafter Oehnell intends to place chief reliance on the old methods with rest in bed using ambulatory novoprotein treatment only in cases in which the patient's circumstances indicate it.

Heyd C G Carcinoma of the Stomach Resection

Implantation of the Duodenum into the Pan creas Ann Surg 19 6 lxxxiii 546

The patient whose case is reported was a man 43 years of age who gave a history of loss of weight weakness cramp like pains in the epigastrium several hours after eating and tarry stools. The Yray showed an irregularity on the mesial surface of the stomach and an arrow canalization through the distal portion of the pylorus.

Operation revealed an infiltrating carcinoma of the distal third of the stomach and protruding through the patulous pylorus an annular carcinomatous ulcer with involvement of the lymph glands along the lesser curvature of the stomach and be

tween the duodenum and panrieas

A subtotal resection of the stomach pylorus and first portion of the duodenum was done and a Billroth II operation performed. As there was in sufficient duodenal tissue for an inversion the stump of the duodenum was sewed over and implanted into the peritoneum of the pancreas. The operation was followed by the development of a localized empyema evidently secondary to a subpleural abscess which was probably of embolic origin. This was drained. The gastric wound healed thoroughly and the patient was discharged from the hospital thirty three days after the operation on the stomach

I COWARD BISHLOW M D

Hanssen F S The Results of Surgical Treatment of Gastric Cancer (Resultate der chuturischen Behandlung des Magenhrebes) Aorsk Mag f Largevidensk, 19 5 luxun 1305

Hansen reviews 280 cases of gastric cancer which were treated in the period from 1000 to 19.3 One hundred and ninet; one of the patients were men In 25.4 per cent of the cases a gastrectomy was done with an operative mortality of 8.45 per cent in 26.1 per cent a gastro enterostomy with an operative mortality of 21.0 per cent and in 10.3 per cent an exploratory laparotomy with an operative mortality of 13.3 p.r. cent. In 2.9 per cent vanous palliative operations were done and in 26.3 per cent no operation was performed

Of fifty one patients subjected to gastrectoms more than three years ago fifteen (294 per cent)

lived three years or longer after the operation but eight of them died from recurrence of the carcinoma from three to seven years after the operation Seven patients were still alive from three and one half to fifteen years after the operation six were cured and one patient who was operated upon seven years ago is now suffering from pernicious angemia

The length of time between the appearance of the first symptoms and the patient's admission to the hospital was on the average the same for those operated upon radically later as for those operated upon otherwise. The duration of life after operation averaged 628 days in cases of gastroctom 225 days in cases of gastro enterostomy and 127 days in cases in which an exploratory laparotomy or no operation was performed korizzinsky (Z)

Gosset, A and Thalheimer, M Pulmonary Complications in Gastric Surgery Autohæmo therapy (A propos des complications pulmoraires dans la chirurgie gastrique autohémothérapie) Bull et mêm Soc noil dechir 19 6, lin 193

The pulmonary complications which frequently follow gastric operations are usually mild but occasionally may be quite severe. In 248 cases in which Gosset and his assistants performed a gastric operation in 1925 there were seven fatal pulmonary complications. In three in which an autopsy was performed a massive pneumonia was found

Clinically the pulmonary complications were of two types. In one the temperature rose the first evening to about 30 degrees C and the chest be came filled with coarse rales but defervescence occurred after one or two days. In the other the temperature rose on the third or fourth day and remained persistently elevated while the signs of a true bronchopneumonia developed in the chest. In some cases the expectoration became fortif indicating the presence of gangree and in one case severe hemoptiss occurred. The treatment of these complications is briefly discussed.

Following Vorschuetz and de Graser, the authors treated seven cases of pulmonary complications by injecting the patient's own whole blood. In three of these cases the complications followed a gastric operation. From 20 to 30 c cm of blood drawn from an arm vein were re injected into the muscles of the high. Usually the temperature fell after about twenty six hours and simultaneously the auscultatory signs began to disappear. This result could not be obtained after the third day of the infection in no instance did the injections have any untoward

Delore X Creyssel J and de Rougemont J Pre Operative and Postoperative Care in Stomach Operations (Les coins pré et post opératoires dan les interventions gastriques) Presse med Par 10 5 xxviii Lato

LAWRENCE JACOURS M D

In addition to the ordinary pre operative care given in any case in which a laparotomy is to be

performed the authors believe that when a gastric operation is indicated pre operative gastric lavage should be done except in a few rare instances. The objection sometimes urged that it shocks the al ready weakened patient is not tenable since experience has shown that the weakest patients bear lavage very well and these are the ones that would be most injured by the absorption of retained gastric fluid. If lavage is performed gently and slowly with hot liquid there is no danger that it will cause harmoniage the short of the solid patients of

In addition the mouth and teeth should be care fully disinfe ted for several days before the operation and if necessary, fluid should be supplied by repeated injections of physiological salt solution If duress is low (,oo to 800 c cm of unne for example) glucose solution should be given. Roentgen examination should be avoided the day before the operation unless it is absolutely necessary. The presence of bismuth in the stomach during operation, is troublesome and seems to favor separation.

of the sutures

Postoperative gastric lavage is very beneficial when indicated but should not be practiced rou tinely to prevent possible complications. The chief essential in the postoperative care of the normal case is nutrition. It has been the custom to give nothing but hould for several days but semiliquid food may b given on the second or third day This may save the lives of patients who otherwise would die of acute manition and dehydration with second ary toxic symptoms due without doubt to arrest of kidney elimination. Of course, the feeding depends upon the indications in the particular case. In a case of non stenotic ulcer treated by simple gastroenterostomy fasting will do no harm while in a case of stenosis from tumor nourishment should be given as soon as possible

The most frequent postoperative complication is hemorrhage into the stomach. This is generally shown by the repeated vomiting of small amounts of liquid mived with dark blood. The treatment is hot gastric lavage which not only removes the blood but usually restores the muscle tonus. Instead of regaining its tonicity the picture of acute dilatation develops evacuation and hot lavage are indicated but if true pentonitis has developed lavage will do no good and the ordinary treatment for peritonitis should be given.

Sometimes a vicious circle is established and at the end of the first or the beginning of the second week the patient begins to have uncontrollable bilious vomiting. Lavage may be tried but if it fails and the symptoms grow worse operation must be performed at once. Two other complications which require operation are occlusion by the but ton and secondary closure of the opening by circl artical contraction. The former occurs between the

twelfth and twentieth days when the anastomosing button is expelled and the latter generally at the end of from one to three months but sometimes later

AUDREN G MORGN M D

Butler E and Delprat G D Intestinal Obstruction California & li est Med 1926 vviv 488

This article is based upon ninety three cases of intestinal obstruction operated upon at the San Francisco Emergency Hospital with a mortality of 344 per cent. The treatment given in such cases is as follows

One thousand cubic centimeters of a 10 per cent glucose solution are given intravenously and if the patient is toxic and dehydrated very slowly. Hypo dermodysis Weeks drip and gastric lavage are

employed if the operation is delayed

The field of operation is dry shaved scrubbed with ether and alcohol and panied with a per cent alcoholic solution of pieric and Ether anissthesia is used when the cause of obstruction is undeter mined as in cases of internal herma volvulus or adhesions while introus outde-oxygen or local anissthesia is employed when the obstruction is produced by a strangulation Enterostomies are usually done under local anissthesia During the operation normal salt solution is given subcuta neously into the avulte or deep into the muscles of the thighs if the surgeon deems it necessal.

If the cause of the obstruction is not evident at once the hand is introduced when the pertinenum is opened and a search is made for the site of the obstruction. Any band of adhesions volvulus thickened bowle tumor or fixed bowle is usually palpated immediately. This procedure very often does away with unnecessary handling of loops of

distended bowel

Matthews believes that enterostomy in the first loop of jejunum and immediately above the obstruction if there is any damage to the muscular wall should always be performed particularly if considerable vomiting has occurred

After the operation in the authors cases the nurse is instructed to flush the catheter with normal salt solution every two hours or if it becomes plugged more frequently. The catheter is connected with a bottle hanging on the side of the bed The quantity of fluid that will be drained from the upper jejunium in the first twenty four hours be large. If the drainage is continuous the toxic condition rapidly improves and vomiting seldom occurs. Fluids are supplied to the tissues intravenou. If it is the continuous should be a supplied to the tissues intravenous and in tramuscular injection.

Weeks drip three hours on and one hour off is begun immediately upon the patients return from the operating room. The first fluid that enters the rectum contains a dr of tin ture of digitalis. Hot compresses to the abdomen are comforting and promote early peristalsis. The unthors never give pituitin until peristalsis has begun Morphies sulphate should not be withheld as the patient must

be kept comfortable. The enterostomy tube is removed as soon as peristalsis is active and the bowels have moved

In none of the authors' cases has there been any disturbance from the fistula after the removal of the enterostomy tube

CARL R STEINEE M D

Perlmann J Clinical Contributions on the Pathology and Surgical Treatment of Intes tunal Obstruction (Klinische Beitraege zur Pathologie und chrurgischen Behandlung des Darm verschlusses) 4rch film Chr. 1925 (28XVII 245

In 215 cases of ileus operated upon during twenty years there were 200 cases of mechanical ileus and ten cases of adynamic ileus. Eighty per cent of the pitients with mechanical ileus were males. In the ITI cases of volvulus the ratio of males to females was 8 to 1. These constituted 50 per cent of the total number of cases of ileus. The mortality was quite high—in the total number of cases. 58 per cent and in the cases of volvulus of the small in testine 70 per cent.

Obturation ileus should be treated operatively as soon as possible. The relatively rarely observed intussusception which occurred in nineteen cases is much more common than is generally believed but is too infrequently diagnosed in children. This fact Perlmann believes is responsible for the high mort-dity from intestinal obstruction in Russia.

Of the operative measures in ileocolic invagination reduction of the invagination gives the best

Great emphasis is laid upon the difference between strangulation ileus and obturation ileus. In the former there is an associated constriction of the mesentery

In regard to the etiology of volvulus it was observed that this condition occurred very frequently during the month of August when during the day, the peasants undergo great boddy exertion in gathering the crops and eat nothing and at evening fill their previously empty gastro intestinal canalis with large amounts of vegetable food. The high mortality in cases operated upon is attributed to the already existing peritonitis due to the patient's delay in coming to the surgeon. Attention is called to the relatively slight symp.

Attention is caused to the relatively slight symbols of the sigmoid flexure. In volvulus of the sigmoid flexure. In volvulus of the sigmoid flexure the author regards detorsion as the method of choice, and in suitable cases prefers an anastomosis to resection.

Wolf C G L, and Canney J R C The Treat ment of Ileus by Choline Lancet 19 6 ccx 707

Following up experiments in Magnus laboratory and the work of klee and Grossmann in the Romberg clinic in Munich the authors studied the clinical effects of choline hydrochloride in the treat ment of ileus

The chincal records of four cases treated with choline tend to support the experimental data and show that intestinal contractions can be easily induced

Therapeutic doses of choline do not seem to be toxic. The drug is administered intravenously in normal saline solution and should be given slowly WILLIAM E. SHACKLETON M.D.

Bolling R W Chronic Irreducible Intussus ception in a Twelve Months Infant Resection Ann Surg , 1926, lxxxiii, 545

Bolling reports the case of a year old infant who was suddenly seized with an illness characterized by vomiting irritability the passage of dark blood and mucus by rectum and distention of the abdo men. The vomiting and bloody stools ceased and the distention gradually became less but the irritability continued.

When the child was seen by Bolling two weeks later it did not appear acutely ill but was apathetic and somewhat dehydrated Examination revealed an elongated mass in the upper part of the abdomen on the right side and extending across the midline \(\text{Yay examination after a bismuth enema confirmed the diagnoss of chronic infussissception

At operation an intussusception of the ileocæ. al region into the splenic flexure was found. Reduction was possible only to the upper portion of the ascending colon. Resection of the distal ileum, the caccum, and the ascending colon was done and followed by avial anastomosis of the ileum and transverse colon. Recovery resulted. I EDWARD BISINION M.D.

Hertz J and Basset A Cases of Acquired Peri duodenitis (Observations de périduodenite ac quise) Bull et mém Soc nat de chir 1925 li 1010

In eight of eleven cases of periduodentis the in fection had its origin in the appendix and in three it began in the gall bladder. It reached the periduodenal region by way of the lymphatics and glands and the adhesions formed around inflamed glands. In cases of periduodentis it is therefore important to search for appendicutis, and in cases of appendicutis, and in cases of appendicutis the cause is not evident in the diudenum or the neighboring organistic appendix should be examined through the same incision and should be removed if it is found diseased.

In the liberation of adhesions heavy bands should be divided between ligatures, and the area should be peritonized as completely as possible. The use of a free omental graft for the peritonization is rarely successful on account of the attenuated infection and the operative site.

When the gastroduodenal disturbances are marked or are likely to recur as the result of the reformation of adhesions, when the adhesions are difficult to liberate or cannot be liberated completely, and when it is impossible to obtain perfect peritonization gastro enterostomy or duodeno jejunostomy should be done

WALTER C BURKET M D

Bolling R W Complete Congenital Obstruction of the Duodenum Duodenojejunostomy at Nine Days 1un Sure 1026 lxxxii 543

In the case of an infant weighing 6 lb o oz at birth and s lb when it was o days old persistent vomiting occurred and the \ ray showed complete obstruction of the duodenum At operation the duodenum was found dilated to two thirds the size of the stomach

An anastomosis between the duodenum and the jejunum was done anterior to the colon. After a stormy convilescence the child made a good recovery I I DWARD BI HAOW M D

Kansinow R The Experimental Production of Duodenal Ulcer by Exclusion of the Bile from the Intestine tan Sure 10 6 lyxun (14

In the experiments reported the fundus of the gall bladder was implanted transcortically into the pelvis of the right kidney and when healing was complete the flow of bile was entirely diverted into the urinary tract by ligation and division of the common duct

Of forty three animal treated in this manner seventeen developed typical duodenal ulcers. The lesions were single or multiple and situated usually in the vicinity of the amoulla of Viter. They bore no relationship to the mesenteric border of the in testine. They ranged from minute lesions to ulcers measuring from 1 2 to cm in diameter They had a punched out appearance, the edges overhang Frequently they extended through to the serosa Their microscopic appearance was that of the subacute or chronic pentic ulcer in man

These experiments showed that duodenal ulcers can be produced without trauma to the intestinal wall and may be caused in dogs not previously diseased. Whether they preceded or followed the nutritional disturbances incident to the exclusion of bile could not be decided. Further experimentation will be necessary to learn the details of the processes leading to their formation

LMILC KOBITSHEK M D

Hiden R L and Orr T G The Effect of Jenu nostomy in Experimental Obstruction of the Jejunum of the Dog J Exper Med 19 6 this 483

The authors carried out experiments on twenty five dons to determine the effect of rejunostomy alone and combined with the administration of sodium chloride on the chemical changes in the blood and the duration of life in cases of high jejunal obstruction

Obstruction was obtained by dividing the jejunum and invaginating the ends. The jejunostomy was done by the Witzel operation. The following conclusions are drawn

Jejunostomy does not prevent the develop ment of the chemical changes in the blood which are characteristic of obstruction of the jejunum in the dog

Jejunostomy following experimental obstruction of the session does not prolong life. There is some evidence that early jejunostomy may shorten

The treatment of jejunal obstruction with sodium chloride solution tends to prolong the life of animals regardless of the performance of sessions I Enuspo Ristriou M D

Flechtenmacher C Jr Radical Operation for Postoperative Peptic Ulcer of the Jeiunum with Resection of the Colon and a Contribu tion on the Choice of Operative Procedures for Gastric Ulcer (Zur Radikaloperation de Ulcus pepticum jejuni postoperativum mit kolonre ek tion zugleich ein Beitrag zur Wahl der Opera tionsmethode des Ulcus ventriculi) Il a med Hehnschr 1925 1885 2581

The author advorates rese tion for p ptic ulcer For gastric ulcer he prefers the Billroth I op ration although the Billroth II operation gives equally good results. The treatment of peptic ulcer of the jejunum should be radical surgery. The surg on should not hesitate to remove considerable tissue even the transverse colon. Dietetic after treatment is of importance. Castro enterostomy guaranteeneither the healing of an ulcer nor permanent free dom from symptoms and it does not always pro tect against recurrence or subsequent perforition or hamorrhage. Moreover it permits the confu ion of callous ulcer with circinoma and is often followed by peptic ulcer of the jejunum

The author reports several cases showing the excellent results given by resection even in the cases of patients who are in poor condition. He admits however that recurrence may develop even fter uch a radi al op ration. He b heves that wh n this occurs the tendency to form vicers is so strong that the condition is incurable by surgery

For the op ration I le htenmacher prefers lo al an esthesia of the abdominal wall and an esthe ia of the splan hair nerve induced by Braun's method He believes that the serious pulmonary complication whi h occurred in one of his cases could have been prevented if instead of inducing anesthesia with chloreform and ether after making the in ision (whi h was his practice in the cases of the more ensitive patients) he had r hed entir ly upon the local and splan haic anasthesia COLLEY (Z)

Recurrent Appendicitis Following Duettmann Appendice il Abscesses (Ueber Appendicitis rezidive nach appendiciti chen 1b ce en) Unen ch n med Wehnsche 1925 lxxii 1870

The author accepts the opinion held at the Giessen Clinic regarding the two stage operation for appen dicular 1b cesses and has abandoned the one stage radical pro edure. In 36, cases treated solely by incision of the abs ess there were only three deaths a mortality of o 8 per cent Of the 314 (86 per cent) patients who came to the secondary operation only one died a mortality of o 3 per cent. The total mortality was therefore about 1 00 per cent which is very low as compared with the mortality of the one stage operation (Wolff, 10 per cent Noetzel Riediger 10 2 per cent, Dewes 6 8 per cent)

When the appendix is not removed at the first operation, new attacks of appendicitis are not rare Recurrences have been known to develop as long as nine years after the incision of an abscess. Of the patients whose cases are reviewed by the author thirty five (9 6 per cent) came for a second treat ment for abscess and twelve (3 3 per cent) for a third treatment. All of these were patients who did not return for the second stage of the two stage operation.

Two hundred and eights five patients (78 3 per cent) appeared for the secondary appendectomy after a period of three or four months. Eighteen who returned later were all re operated upon under the diagnosis of acute appendicutis. In most of these cases a severe inflammation was found

Of the 285 cases operated upon secondarily after a period of three or four months, total obliteration of the appendix had occurred in only eleven. Acute inflammation was found in sixty five and chronic inflammation in seventy two. In twenty five of those with chronic inflammation there was obliteration of the proximal portion of the appendix with dilatation of the peripheral portion by pus. In seventy three cases the tip of the appendix was obliterated but the proximal portion still showed a good covering of mucous membrane. In two cases has the first of the superior was a good covering of mucous membrane.

Duettmann emphasizes the fact that in all patients operated upon twice or three times for abscesses the appendix was surprisingly well preserved. Therefore, repeated abscess formation does not always cause obliteration.

He therefore agrees with Kuemmel that a radical operation is always best. In view of the exceedingly favorable results obtained at the Giessen Clinic with the two stage operation for appendicular abscess he considers the latter the least dangerous procedure and accordingly the operation of choice. The second operation can be combined with the laparoplasty which is so often necessary as a second procedure following the one stage operation.

LOEHR (Z)

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Crile G W A Cytoplasmic Rôle of the Liver

Statung with living and 'non-living substances is chemically identical and separating these substances into atoms, Chile describes the development of life and its reproduction in terms of electricity. He traces the source of life to the vibrant energy of light and finally applies his theory to the human anatomy, especially, the liver and brain

He emphasizes the danger of the cooling of the viscera in abdominal operations and to prevent it

recommends diathermy to the upper abdomen and lower chest in all laparotomies. He suggests also the substitution of nitrous oxide anæsthesia for ether anæsthesia. In a case which is a poor risk the patient should not be allowed to pass beyond the stage of analgesia reliance being placed chiefly or regional anaesthesia. John A Wolepe M D

Rubenstone A I and Tuft L A Comparative Study of Liver Functional Tests J Lab & Clin Med 1926 vi 671

The function of the liver is difficult to test as it must be tested indirectly through the blood or bile. The liver has a large margin of safety only one fourth of the organ being necessary to maintain normal function and the functions of the liver are multiple being concerned with the metabolism of carbohydrates protein fat and from the secretion of bile and the filtration from the blood of novious irritants particularly foreign proteins.

In an organ with so many functions it is difficult for a single test to serve as an index of total function

The bemoclastic crisis of Widal is intended to indicate the albumose storing or proteopexic function of the liver. In the authors experience the findings of this test have been variable and difficult to interpret.

The levulose tolerance test is dependent upon the fact that ingested levulose in contrast to glucose, produces only a very slight use in the blood sugar which seldom lasts longer than an hour. This test may serve as an index of the carbohy drate function of the liver but is of clinical issistance only when marked liver changes have occurred. It is of little or no aid in the milder hepatic dysfunction in which a functional test is most desired.

Various diseases of the liver are associated with a marked increase in the bilirubin content of the blood resulting often in frank leterus. Between the normal and the point at which frank leterus occurs is a period of latent leterus in which the bilirubin concentration though increased above the normal is not sufficient to cause definite jaundice.

The quantitative estimation of serum bilitubin is best performed by the method of Van den Bergh or Vleulengracht. The test serves to indicate the extent of impairment of biliary function and the response to treatment. In the authors cases of jaundice with a high index improvement was shown by a decrease in the index before any change was detectable in the color of the skin. Patients with cholecystitis had indices varying from normal up to 15 or more. The index was increased in hepatic cirrhosis. Malignancy of the liver always produced a high index.

The phenoltetrachlorphthalein test of Rosenthal has given good results. The percentage of diverention was found to be proportional to the degree of liver disfunction reaching 35 per cent in the severe types. The injection of so much dige in cases in which the liver is already damaged is not always of the contraction.

Studies of the blood nitrogen partition are of thitle value from a practial clim if standpoint. In cases of advanced liver disease the ur a value is low and the non-protein nitrogen value compact tively high but in cases with less severe hepatic diseas the proportion i usually within normal limits. The authory combine the test in the follow

ang way

The patient is pr pared as for a levulose tolerance test and the calculated amount of disc contain d in a syringe is made ready. Blood is then withdrawn into two tubes one citrated and one a plain tube lenough blood is withdrawn for all of the tests. Through the same needle the calculated amount of die is injected. The patient their immediately drinks the levulose solution and thereafter blood is withdrawn into plain and citrated tubes from a vein of the oppo ite arm at intervals of thirty minutes one hour and two hours.

After the blood has clotted it is centrifugalized and the serim is pipetted off. The serim collected before the injection is used for the interior indeterminate on hid as a strandard for the due test. The citrated blood collected before the injection is used for the ura introgen non protein introgen and surar determinations. Blood supar determinations are then done on all bloods (citrated) taken suoseju int to the ine tion and the sera are used to determine the divertention.

HOWARD A MCKNIGHT M D

Berger S S Cohen M B and Selman J J Liver Function Tests A Comparative Study of Five Methods in 100 Clinical Cases J Am W 1st 1026 Press 1116

The authors report 100 cases in which five liver function tests namely the Van den Bergh Widal (hamoclastic cross). Rosenthal problem and pro-

bilinogen tests were made

Four groups of cases were examined (1) cases of hier disease with jundice (2) cases of liver disease without manifest jaundice (3) cases in which liver disease was suspited but not demonstrated clinically and (2) are in which liver disease was un suspected.

The authors found that the various tests do not give parallel results and were unable to separate chinical cases into those of liver disease and those without liver disease by means of ann one of these tests unsupported by other chinical evidence. When all of the let 1 serp positive by were dealing with liver disease of the mot evere type namely that associated with 1 one; paundre In every case in which all tests were positive except the Widal test there was obstructive to gaining due to the finding is of great value in the differential diagnosis.

Fernstroem B A Case of Subphrenic Abscess with Vomited Gall Bladder leta chiring Yeard 1026 hx 534

The author reports a case of gangrenous chole cystitis with abscess formation. When opened the

gall bladder was found to contain gall stones Operation was preceded by the vomiting of blood during which the gall bladder was ejected into the stomach or intestine Recovery resulted

Graham F A Gali Bladder Diagnosis from the Standpoint of the Surgeon Radiology 1926 vi 273

Lyon B B V The Evolution of Early to Late Gail Tract Dis ase A Brief Consideration of its Diagnosis and Treatment Radiology 1916 vi

Zink O C A Clinical Study of Cholecystitis with the Aid of Cholecystography Radiology 1926 vi

George A W The Practical Value of the Graham Cole Method in the Diagnosis of Gall Bladder Disease as Compared with the Older Method Radiology 1026 vs 202

GRAIAM calls attention to his previous work show ing that h patitu is a constant accompaniment of cholecystitis and that early disaposis and treatment is essential for the avoidance of late and permanent changes in the liver and possibly also in the pan creas. In the past the recognition of gall bladder disease wa based largely upon the late changes for a part of the past of the past of the past and of texts sudoph subpitulies with all of the aid of texts sudoph subpitulies with all of the best of the past of the past of the past of the best of the past of the past of the past of the recognized may lead to the early recognition of natholectical conditions.

The criteria upon which a diagnosis of choles six is so be based after the addomen has be enoy ned are the following: (i) stones (2) add sions of the gill bladder to surrounding structures (3) thickness and change of color (4) enlargement of the sentinel gland of Lund (5) evidences of hepatitis involving theigh (1) right tobe of the liver Occasionally gall blidders are opened and removed when the mucosashows changes such as scholesterol balows?

The growing could nee in the significance of chol cystographic findings has led on several o casions to the removal of a gall bladder which seemed normal on inspection and palpation in every instance in which this was done microscopic examination revealed pathological changes in the walls of the organ

Efforts have be a made to use substances for cholecystography which will make it possible to obtain information relative to hepatic function by serum tests. An isomer phenolitetra iodophthalien has been found to an wer this purpose but sufficient work has not yet been done with it to determine its practical valle.

Lyon conhines him off largely to a discussion of on surgical drainage of the gall bladder and the diagnostic information which may be derived from it. He claims that this procedure provides a mean of investigating the living flatology of the biliary tract in much the same way as surgery permits the study of its living pathology. Microscopic study of material aspirated from the diodenobility fract reveals the type degree and source of epithelial

exfoliation In the early stages of cholecystitis the changes noted may indicate merely a catarrhal proc ess. If this is allowed to run its course extensive and readily recognizable damage may be done to the hepatic, pancreatic, gall bladder, and bile duct cells

Acute gall bladder disease is usually an acute exacerbation of a chronic process If traced back it will often be found to have had its origin in a focal infection with repeated local manifestations followed by successive gastro intestinal disturbances of an indefinite nature culminating finally in frank gall bladder symptoms Non surgical gall bladder drain age not only gives information regarding the pres ence of pathological changes, but may serve to check or cure the process and thus obviate the ne cessity for surgical drainage

ZINK regards cholecystography as of prime importance in the diagnosis of early cholecystitis. He dis cusses briefly the relative values of and the indica tions for the oral and intravenous methods of giving the dye, and states that questionable findings fol lowing its oral administration should always be

checked by its intravenous injection

The diagnosis of gall bladder disease by cholecys tography is dependent upon (1) excretion by the liver (2) patency of the cystic duct, and (3) the mucosal concentrating power of the gall bladder

Failure to obtain a shadow with the use of a stand ard technique indicates (1) cystic duct occlusion (2) hepatic insufficiency (3) a small sclerotic gall bladder with an obliterated lumen (4) cystic lym phatic damage or (5) failure of the dye to be ab sorbed (when it is given orally) In the absence of th se conditions the time of appearance density and motility of the gall bladder shadow are indirect indications of the pathological condition of the muçosa

Cholecystography gives valuable confirmatory evidence in cases with irank clinical evidences of gall bladder disease, but its greatest value lies in its demonstration of such disease in the early stages when there are only vague gastro intestinal dis turbances of doubtful origin The method was used by Zink in 663 cases Of 131 of these which were operated upon the findings were confirmed at opera tion in of per cent

George's experience with cholecystography in gall bladder disease has convinced him that the older method of roentgen examination developed largely by himself is equally, if not more reliable in diagnosis except with regard to gall stones. The older method is based primarily upon the fact that the pathological gall bladder may be visualized roentgenographically with a proper technique and that secondary evidences obtained with the aid of the opaque meal such as 'gall bladder seats adhesions to the second part of the duodenum filling of the ampulla of Vater and adhesions to the hepatic flexure of the colon are strong indications of cho lecystitis Visualization of the gall bladder after the administration of dye can give information only with regard to the size shape, and location of that organ. Non visualization, although of some value may lead to error, especially when the dye has been Variations of emptying time administered orally are of doubtful significance because the normal time has not yet been accurately determined. With regard to stones George states that those of the cho lesterol type can be detected far more readily after the administration of dye than by previous methods

It is George's conviction that the soundest procedure today for the study of the gall bladder is a thorough examination by the older method with substantiation of the findings so obtained by the use of the Graham Cole procedure

ADOLPH HARTUNG M D

Babcock W W Cholecystitis and Appendicitis Surg Clin A Am 1926 v1 20 Bybook W W Cholelithiasis Chronic Salpingo Oophoritis with Adherent Abdominal Scars

Surg Clin \ Am 1026 v1 30

For the usual appendectomy the author advocates a transverse skin incision 4 or 5 cm in length. beginning i cm median to the anterosuperior spine of the ilium. He believes that the crushing of the appendix with forceps disseminates the infec tion and that a pursestring suture may contaminate the wound He therefore ligates the appendix and ties the stump of the meso appendix over the stump of the appendix Spinal anasthesia is used in cases with purulent peritonitis due to appendicitis. The appendix is removed and drainage used only for the evacuation of solid exudates foreign bodies, blood or blood clots or old pus Packing sponging wip ing and the introduction of the hand into the abdo men are condemned Salt solution given sub cutaneously is preferred to water by rectum Water and food by mouth are withheld to favor localization of the infection Localization is in dicated by the subsidence of pain and tympany and the expulsion of gas and fæces If the adminis tration of a little liquid by mouth is followed by pain and an increase in the temperature the localization is not sufficient

With regard to gall stones the author states that in the case of an obese middle aged woman a his tory of a sudden attack of severe indigestion at night and a sense of epigastric fullness which the patient tried to overcome by belching or vomiting both of which were quite relieved the following day is truer evidence of gall stone obstruction than any known laboratory test or method of physical exam ination. In certain instances it is well to think of a cardiac attack coronary obstruction and aortitis in the diagnosis

In operations for gall bladder disease the condition of the liver should be noted as it is the best indication of the prognosis after cholecystectomy A liver that has been degenerating for from fifteen to twenty years will not be restored to its primary function by the removal of the gall bladder When the common duct has been obstructed for some time the author effects gradual decompression of

the liver by anastor osing the gall bladder to the duodenum or stomach with the use of an in and out suture which gradually cuts a new stoma between the two organs. This suture is re-enforced by a continuous seroserous suture

In cases of biliary fistula in which the gall bladder has been removed Babcock carefully dissects out the fistulous tract and anastomoses it to the duo denum or stomach JOHN A WOLFER M D

Fabritius W Spontaneous Perforation in Cho lecystitis Without Stones (Spontanperforation but Cholecystitis sine concrementa) Il i n m J W chuschr 1925 1xxv 2580

The symptoms of cholecystitis without stones frequently simulate those of cholelithiasis and the condition is often not diagnosed until operation is performed. More thre are cases in which a severe chronic inflammation of the gall bladder develop without any symptoms until a life threatening complication suddenly develops and necessitates immediate operation. The author reports a cale of the latter type. The patient a previously healthy noman anoke one night with severe pain in the right side of the abdomen. Severe vomiting soon set in and there was a typical McBurney pres ure pain Adiagno i (1 ij jendicitis was made

When the perstoneum was opened dark bile gushed out The appendix was normal. When the only lightly unlitted gall bladder was freed from the creat omentum partly by blunt dissection and partly by means of lightures a pin point perforation from whi h dirk bile was leady trickling was found on the anterior aspect of the fundus. Stones vere not demon trable in either the gall bladder or the deeper biliary to sages. Cholecy tectoms was followed by recovery

The exterpated gill bladder contained no stones and its ninicus memi rane showed no ulcerous of de tru tive processes. At the point of perforation there was a circumscribed necrosis which pene trited the entire the kne s of the gall bladder wall COLLEY (Z)

Bonnet M L and Lapoint M A Perforation of a Cancer of the Gall Bladder into the Peri toneal Cavity Friergency Cholecystostomy and Secondary Cholecystectomy Cure (ler foration en pénioine libre d'un cancer d' la vé icule biliaire chol cy tostomie d'urgence et cholocyster tomie ccondure guerison) Pull et mem Soc nat d chir 1961 ttt

Bonnet reported the case of a woman a years of age who was admitted to the hospital with severe pain in the right hypothondrium associated with muscle spasm and pe's stent vorning a tempera ture of 38 o degrees C and a pul e of 110 She had had a similar attack six months previously

Laparotomy revealed perforation of the gall bladder and free bile in the peritoneal cavity 1 he inferior surface of the call bladder was adherent to the transver e colon Stones were carefully sought but were not found. The wound was closed with drainage Convalescence was uneventful and the patient was discharged after eighteen days with a small bihary fistula. Four months later the fistula was exci ed and a cholecystectomy was done

On examination of the gall bladder one stone was found. Histological examination revealed an atypical growth of the gall bladder cells with evi dence of malignancy. In the author's ommon this was a case of primary cancer of the gill bladder

Lapoint calls attention to the rarity of cases of rupture of the gall bladder by cancer so far as he is aware no such case has been reported in the literature. He believes that the diagnosis is possible only at op ration as there are no pathognomonic symptoms PAUL C C LONNA M D

Sohn A Fatal Biliary Leritonitis After Puncture of the Common Duct (Toudliche gillige Peri tonitis nach I unktion des Choledochus) Zenfraibl f Chir tozs lu 2578

In a patient with a n netrating callous ulcer of the lesser curvature an anterior gastro enterostomy with a Braun anastomosis was performed and a there was a malformation of the intestine a punc ture of the common duct was done to clear the site of operation. The nuncture was done with a record syringe and a very small needle. After the aspira tion of bile a hot salt compress was applied to close the small opening. No scepage of bile was noted thereafter Four days later the patient died of pentonitis

Autopry revealed a bilinry peritoritis caused by the escape of bile from the point of puncture. This case shows that after puncture of the biliary tract without drainage the bunctures should always be sutured and that when the common duct is sutured drainage is necessary as a puncture of the wall WORTMANN (Z) may reopen

Payr E Exposure of the Common Duct in Opera tion for the Recurrence of Stone After Chole cystectomy (Freilegung des Ductus choledochus bei Tezidivoperationen nach Cholecystektomie) Zentralbi f Chir 1925 hi 1986

It is not always possible even with the best technique to avoid leaving behind small gall stones high up in the branches of the hepatic duct Stones are less frequently left in the common duct and the pupilla of Vater A method of preventin this error which i described by Payr and Iurasz consists in exploring the biliary passages with the u c of rubber catheters and a syringe The author has frequently observed that secondary operations for the removal of stones from the common duct are a occased with difficulties that are little under stood It is therefore necessary to obtain further information with regard to the typ's of recurrent adhesions and the order in which they should be removed

Almost always following a cholecystectomy there is found a field of adhesions on the anterior vall of the abdomen which involves the scar in the ab dominal wall, the liver, the transverse colon which is pulled forward, the omentum which is pulled upward and the stomach which is pulled to the right. The separation of these adhesions is easily accomplished by segmental ligation and severance of the omentum. The liver is held up the stomach held to the left and the colon held down.

The next lavers of adhesions to be attacked are those which hold the duodenum high up in the gall bladder bed. The adhesions between the liver and the upper horizontal portion of the duodenum are usually dense and the duodenum like a cap con ceals similar structures in the hepatoduodenal ligament. Even when the adhesions are very thick, the duodenum can be easily freed with the knife. The vertical portion can then be mobilized by approaching from the right side according to the method of kocher. This exposes the hepatoduodenal ligament.

The papilla can be approached only after the separation of the duodenum from the liver and further mobilization of the angle If the foramen of Winslow is patent, this dissection can be facilitated by the introduction of the foreinger. The common duct which is greatly dilated by gall stones impacted at the papilla often shimmurs through with a blue color and is easily recognized. The passage way should be punctured the bile aspirated two small sutures applied and the duct opened.

Investigations of the retroduodenal portion by means of sounds calculi spoons and forceps and the little finger often establishes the presence of concretions. These can usually be removed easily through the dilated passage. If the duodenum has been sufficiently mobilized from the right side stones in the papilla can be pushed along. The main stem and the two large branches of the hepatic duct should then be examined and a Γ shaped drain inserted.

Havlicek H A Case of Rupture of the Pancreas and Spleen Cured by Operation and Some Comments on the Shoulder and Arm Pant (Ein operatus geheller Fall von Pankreas Milz ruptur und einige Bemerkun, en ueber den Schulter Armschmerz) Zentrabli f Chr. 1923 li 1967

The author reports the case of a boy 13 years of age who sustained a rupture of the spleen and pan creas and a dislocation of the hip in a fall. The in jury was followed by severe shock and on explora tory puncture 1 bloods exudate was found in the peritoneal cavity

At first a temporary clamping of the pedicle of the spleen was done and the blood collected in the peritoneal cavity was re infused. When the general condition had improved splenectomy was per formed a piece of the tail of the pancreas which was torn off was removed and the stump of the pancreas was sutured over and invaginated into the posterior wall of the stomach. The abdominal wall was then completely closed.

Convalescence was smooth except for two attacks of severe pain in the left shoulder and arm During the first attack the left radial pulse disappeared entirely and the skin of the arm became cool and evanotic In both attacks the pain was immediately relieved by a novocain block of the left splanch nic nerve by the method of Kappis In the second attack the blocking of the left phrenic nerve was attempted as an experiment but without any success On the basis of this experience the author is inclined to doubt the importance of the phrenic nerve in the conduction of pain and to conclude that in the production of shoulder pain the sym pathetic system (splanchnic nerve) is more re sponsible BONN (Z)

Johnson A A Pancreatic Disease—With Case Reports J Ioua State VI Soc 19 6 xv1 169

The author calls attention to the frequency of pancreatic lesions. In the Mayo Clinic they were found in 27 per cent of 4 000 cases of biliary tract disease

Because of the protected location of the pancreas trauma rarely plays an important part in pancreatinesions. This location however is unfavorable with regard to infections as the latter may reach the organ by direct extension through the blood or the lymphatic system or through the ducts.

The main cause of acute pancreatitis is infection which activates the ferments and causes self diges tion of the tissues

In 70 per cent of the cases the symptoms arise so suddenly and are so severe that a detailed history cannot be obtained from the patient Pancreatic involvement is suggested by sudden pain in the pagistrium faintness, and collipse associated with vomiting retching and frequently jaundice. The diagnosis can be assured however only by seeing and feeling the organ

While mild pancreatitis often becomes cured the incidence of recovery has been increased by surgical drainage William F Shackleton, M D

Tower L E The Pathological Physiology of Experimental Gangrenous Pancreatitis J Im

To reproduce in animals the clinical picture of acute pancreatitis it is necessary suddenly to devitalize a sufficient amount of pancreatic tissue to cause extensive necrosis and autodigestion of the gland

As far as the author knows, no one has considered the possibility that the toxemma in acute pancrea titis may be due to a severe local injury caused by the action of the protein split products on the musculature of the intestines and probably also on that of the vascular system

All of the author's attempts to produce a sterile pancreatitis failed. Organisms were always found in one or more of the cultures taken from the pertoneal exudate the gangrenous gland localized abscesses etc. However the presence of these bacteria appeared to be merely incidental and due to the reduction in the vitality of the tissues caused by the violent toxamia

In the experiments cited the omentum seemed to

have a detoufying power

Tower suggests that the toxema of acute pan recatitis acting on the gastro intestinal tract, may produce a toxema like that associated with para lytic iteus and that therefore the use of sodium chloride as advocated by Haden and Orr or the duodenal irragation used in cases of high intestinal obstruction might prove more effective than the introduction of a drain into the pancreas

JACOB S GROVE M D

Gutlérrez A Implantation into the Stomach of a Pancreatic Fistula Following Cyst (Implanta ción de fístula pancreática consecutiva a quiste en el estómago) Reo de cirig Buenos Aires 1925 iv

The author reports the case of a 18 year old noman who for two years had had attacks of severe pain in the abdomen which at first was diffuse and then localized in the engastrium and right hypochondrium and was accompanied by comiting chills and fever. She had also copious diarrheea and her urine was scanty and dark There was no acterus but urticaria develop d dur ing the first attack. Some of the attacks kept the patient in bed for as long as twenty five days About two months before she consulted the author she noticed a rather painful tumor in the right hypochondrium and the adjacent part of the epigastrium. Since then the tumor had in reased in size In the last two months sh had lost 16 kgm in weight

Examination revealed in the right upper quadrant of the abdomen's amooth furmor which was freely movable transversels dull on percussion and sur rounded by a tympanic area. An area of tympany was found also between its upp'r margin and the liver. The Wassermann test and unne and roent gen examinations were negative. Because of the site and free mobility of the tumor a diagnosis of cystic tumor of the transverse mescodion was more than the contraction of the transverse mescodion was more than the contraction of the transverse mescodion was

At operation performed under general chloroform anaesthesia an incision through the upper part of the right rectus showed the tumor to be partly the right rectus showed the tumor to be partly segment was covered by the lesser omentium. It had its origin in the pancreas and was independent of the liver. It contained highed The head and tail of the pancreas particularly the former showed marked industrion. The tumor was found implanted on the anterior surface of the isthmus of the pancreas.

When the cyst was walled off and punctured on cent of a citron yellow liquid was evacuated the gall bladder was displaced to the right by the cyst and was full of stones. Poppert's cholecystos tomy was performed. The wall of the pancreatic

cyst was first sutured to the part tal pentoneum and then to the mus le skin layer. The first sutures were of catgut and the second were interrupted sutures of sik. The patient was discharged well on the thirty fifth day but had a fi tula which dis

charged freely and was very troublesome

As a second one way are proposed in a second one way are proposed with a sound and fistallous track was exported with a sound and the sound and toward the mediane of the sound was a second to a second of the sound of the sound to second of the sound of

The decision was made to implant the fistulous tract a fibrous cord about the size of a lead nen il into the stomach. This was very easy on account of the ptosis of the stomach Closed Kocher for ceps were introduced into the median part of th anterior surface of the stomach just beneath th fistula passed upward and outward and brought out just beneath the end of the fistula. A part of th fistula was cut off enough being left to introdu e into the stomach. The forceps were then open d and an in ision was made in the stomach wall between its blades. The end of the fistula was nulled into the stomach with the forceps and fixed by means of a cutgut suture passed through its wall and the stomach wall It's external surface was fixed to the upper opening in the stoma he with four sutures of fine silk. The lower op ming was then closed with seroserous sutures. A pad of omentum was placed beneath the free surface of the fistula where it came in contact with the stom ach wall

The steps in the op ration are shown in illustrations. Healing occurred by first intention. For several days the patient complianed of nausea Within two months after the operation she had earned skym in weight.

ALDREY G MORGAN M D

Harris R I Splenectomy for Purpura Hæmor rhagica Canadian M Ass 1926 vvi 384

Essential thrombocytopænic purpura is differ entiated from the other types of purpura by (1) a low platelet count (2) a prolonged bleeding time with a normal coagulation time (3) a positive capillary resistance test (4) faulture of the clot to retract and (5) enlargement of the spleen

Injection plays a prominent part in the production of the obscure pathological changes which give rise to the disease

The most important though not the only factor causing the hæmorrhagic condition is the throm bocytopænia

Splenectomy produces a symptomatic cure

HOWARD A MCKNIGHT M D

MISCELLANEOUS

Troell A Comments on the Fahræus Reaction the Stability of the Blood Suspension—in Acute Surgical Affections of the Abdomen Acla chrurg Scand 1926 by 523

On the basis of his experience in recent years and especially in eight cases which he reviews, the author maintains that in acute abdominal conditions of a doubtful and apparently mild type the surgeon can profit greatly by investigating the suspension stability of the blood by the Fahraus test, and in cases given expectant treatment he can profit by making this test repeatedly to determine whether the values are rising or falling

While the Fahreus test is sometimes a better indication of the intensity of an infection than the leucocytosis, it cannot be regarded as an absolutely reliable indicator of the gravity of an inflammatory process in the abdomen particularly if the pertioneal irritation is of very recent development. In all of the authors cases of appendicitis and cholecystitis with a pathological increase in the Fahreus value—usually higher in the latter than the former because of the resorption of toxic products from a fairly large serous surface—the patient had been ill for at least forty eight hours.

Neuhof, H, and Cohen I Abdominal Puncture in the Diagnosis of Acute Intraperitoneal Dis ease Ann Surg, 1926 lxxxiii 454

Abdominal puncture for the diagnosis of acute intrapentioneal disease is done with the use of a spinal puncture needle and a 20 c cm syring. Ethyl chloride locally or novocain is employed for anasthesia. The skin is opened with a scalpel at a point on a level with or below the umbilicus and at either side of the midline. The needle is introduced perpendicularly and aspiration is attempted in several different directions. Only a few drops of

fluid may be obtained, but this is often sufficient for a diagnosis. The theoretical danger of penetrating a loop should not deter the surgeon from taking advantage of this procedure, but it is not safe in the subacute or chronic case in which a loop of bowel might be adherent A negative puncture has not been considered conclusive and if the symptoms justify surgical intervention such a finding has been disregarded. A positive puncture has prevented operation in a number of cases in which it would otherwise have been employed. A careful bacterial and cytological examination of the fluid obtained is as important as the finding of the fluid

In a group of traumatic cases the presence of blood or fluid as indicated by puncture was proved by subsequent laparotomy. In a group of cases of pneumococcus and streptococcus peritonitis the discovery of the organism on abdominal puncture prevented an unnecessary laparotomy. The finding of fluid the color of beef junce and containing poly nuclear leucocytes but no bacteria has decided the diagnosis of acute pancreatitis and the withholding of operation.

Ghose D M A Case of Persistent Hiccough Treated Successfully by Injections of Novocain into the Phrenic Nerve Indian II Gar 19 6 ltt 124

In the case of a patient who was in a state of extreme prostration from hiccoughing for almost four months the author infiltrated the phrenc nerve with from 2 to 4 c on of a ½ per cent novocan solution. The first injection made on only one side, caused transient pain in the shoulder and chest on that side. On the following day, 3 c cm of the novocan solution was injected on the opposite side After three injections there was some improvement and after six injections the hiccough ceased completely. The technique of Kroh was used.

JOHN A WOLFER M D

GYNECOLOGY

UTERUS

Ulesco Stroganowa K. Endotheliomata of the Uterus (Die Endotheliome des Uterus) Arch f Gynaek 1925 cxxiv 802

The morphological and histogenetic characters tes of endotheliomata of the uterus are due to the origin of these tumors from the endothelial and adventitial elements of the blood vessels. On the basis of studies of nine such tumors—three of the original and six of the cerviv—the author distinguishes endothelioma carcinomatodes and sarcocarcinomatodes in addition to cases of excessive blood vessel development resulting in lympho or hemangio endotheliomata according to the vessel of origin.

As the literature does not report all epithelioma tous tumors they are perhaps more common than is generally supposed. To this group belong the tumors described by Fellaender as 'clefantiassendometrii fibrosarcomatois iggantocellulare and also others described as giant cell polymorpho.

cellular and botryoid sarcomata

In all of the cases studied by the author an undoubted relationship was apparent between the tumor elements and the vessels from whose endo thehum or adventitus the tumor developed. In some of the cases the endothehund character of the cells predomnated so that the tumor had an epi thelial or carcinoma like character while in other the admixture of other forms which were more characteristic of connective tissue suggested a sarroma.

sa The power of the endothelial and adventital cells to reart to unflammators stimulation in various forms was shown by an astonishing polymorphism of the tumor cells. Epitheliomata of the cervix are characterized by the predominance of large epi theload cell forms which in addition to polymor phism are distinguished by very numerous mitotic figures. In these tumors there may be also small elements no larger than leucocytes or large clongated multinuclear cells. The tumor tissue formed from the elements and their transitional forms is arranged in centers and columns sometimes in targer masses power traited by a network of thin walled blood vessels and capillares.

In tumors of the corpus there are found besides cords of epithetoid and often multinuclear cells similar to those of tumors of the cervix cords of spindle and oval cells. These give the neoplasm more of a saromatous character but because of their undoubted origin from endothelial and adventitual elements the tumors must be classed with the endotheliomate.

The frequently multinucleated and often very large cells found in endothelnomata also have their origin in endothelial and adventitial cells. Within the vessels they are formed either by mitotic or amitotic nuclear multiplication or by the syncytial confluence of endothelial cells a process in which leucocytes and the remains of cell nuclea and red blood cells are not infrequently surrounded. This content of blood corpuscle material explains the pink color of the gant cell like structures so formed a finding frequently mentioned by the author in his description of the different tumors. Sometimes the syncytial masses so formed show branches which retain the shape of the vessels.

The details of the descriptions cannot be given in an abstract without the illustrations

In conclusion the author cites a case in which death occurred from peritonitis immediately after

radium treatment

Lynch F W The Treatment of Squamous Cell Epithelioma of the Cervix Surg Clin A 1m 1026 M 333

In the authors opinion the ordinary panhys terretiony in the treatment of squamous tell carcinoma of the cervix is to be condemned. The radical dissection of Werthem is better but because of its technical difficulty and high primary mortiality is not penerally employed. Radium offers a much better chance of a five year cure than surgery or the cautery.

In cases in which the carcinoma is limited to the cervit and the operative risk seems good a pre liminary irradiation of about 3 000 mc hrs should be given and followed from two to four weeks late by a radical evision. All other cases should be treated with radium alone some surgeons us radium alone in all cases but reports collected by the author indicate that when the condition is operable the uncidence of five year cure was about 50 per cent in cases treated surgically as compared with 30 per cent in those treated with radium alone.

I LOWARD BISHKOW MD

Rud If A Histological Investigation of a Case of Cancer of the Cervix of the Uterus Cured Locally by Radium and \ Ray Treatment 1cta obst y gynec Scand 1025 19 66

The author reports the clinical course and autopsy findings in the case of a patient who was clinically cured of cancer of the cervix by radium and X ray treatment and died of an intercurrent disea e

Autopsy showed macroscopic healing of the process in the uterus vagina and left parametrium but remains of the tumor were found in the right parametrium

On microscopic examination of the organs, cancer cells could not be demonstrated in the uterus, vagina, rectum, bladder left parametrium or left ovary.

Remains of cancer tissue showing degenerative changes were still present in the right parametrium

and right ovary

The tissue treated by irradiation showed also an increase in the connective tissue the occurrence of hyaline areas and fibrinoid necrosis in the muscles and thekening and obliteration of vessels the valls of which showed hyaline and fibrin like tissue. The mucous membrane of the uterus and vagina in the neighborhood of the cancer site was atrophied

Ward, G G and Farrar, L k P The Radium Treatment of Carcinoma Uteri Am J Obst & Gynec 10 6 V 430

The authors state that for the purposes of comparative study, a standardized simple classification of carcinoma of the uterus according to the extent of the disease and the same rules in estimating end results and percentages should be adopted by all clinics

A monthly follow up conducted by the surgeon in charge of the patient is of inestimable value for successful radium treatment. The details of technique are of importance. Over radiation is sep cially to be avoided and subsequent treatment should be based upon the reaction to the test dose of radium. In the authors' experience, repeated irradiations (three or more) have been of distinct value in certain advanced cases.

In all classes of carcinoma of the cervix radium is preferable to surgery As life can be saved by radium in at least so per cent of the early cases of carcinoma of the cervix the education of the laity and general practitioners to seek an early diagnosis is imperative. Carcinoma of the fundus is best treated by surgery but in many cases resort must be had to radium and roentgen ray therapy because the operative risk is high.

For satisfactory results it is unnecessary to use large amounts of radium. The value of roentgen

ray therapy in carcinoma of the uterus is still undetermined Every case should be treated according to its particular requirements

E L CORNELL M D

Voltz F Carcinoma of the Cervix Treated Exclusively by Irridiation (Die ausschliessliche Strahlenbehandlung des Collum Carcinoms) Klin Wehischr 19 5 19 1306

On the basis of material from the Munich Gyne cological Clinic during the years 1972 to 1979 it is shown that irradiation of carcinoma of the uterus is as effective as operative treatment and sometimes even more effective. To the cases in which a five year cure find been obtained up to the year 1918 which have been reported previously are added the cases with a five year cure which were treated during the years 1918 and 1919.

There were 313 cases of carenoma of the cervix Of these 271 were treated and forty two were unsuitable for treatment Since 1918, radium treatment has been combined with roentigen treatment. In the total number of cases the incidence of cure was 12.4 per cent, while in those remaining after the subtraction of the untreated cases it was 14.3 per cent. The results in the four groups were the following

Group 1, thirty seven operable cases, a cure in sixteen (43 2 per cent) Group 2, seventy four borderline cases, a cure in fifteen (**o - per cent) Group 3 100 inoperable cases a cure in eight (**7 5 per cent) and Group 4 ninety six unsuitable cases no cures in the fifty four which were treated

In 755 cases of carcinoma of the cervix traded in 13 2 per cent and a five year cure in 43 6 per cent of those which were operable. In the total number of cases of carcinoma of the cervix treated by irradia tion which have been reported in the literature—1 732—Voltz estimates that an absolute cure was obtained in 16 9 per cent and a relative cure in 47 6 per cent of those which were operable. In contrast to this, he estimates for 2,185 cases of carcinoma of the cervix an absolute operative cure of 26 per cent and a cure in a total of 30 per cent of the cases operated upon

Accordingly the figure for absolute cure by 1rra distance in the last that the total material was poorer since in the older operative cases the average operability was 64 per cent whereas in the irradiated cases it was only 10 3 per cent. The poorer quality of the material is explained by the fact that many cases which pre viously were regarded as beyond treatment were sent to the Chine for irradiation.

Worthy of note is the five year cure obtained in or per cent of 1778 cases of inoperable carcinoma of the cervix collected by Voltz from the hierature which were treated by irradiation. Attention is called also to the so called optimal cure figure that is the result obtained when the patient submitted to a complete course of treatment. In Group 1 this was 748 per cent in Group 2 41 9 per cent, and in

Group 3 13 1 per cent

The author believes that by further development in the technique and methods of irridiation the results may be further improved particularly by irradiation of the hypophysis, exact dosage, and the reduction of irradiation sickness by the use of irradiation cabinets

Marting (C)

ADNEXAL AND PERIUTERINE CONDITIONS

Pettinari V The Ovarian Graft and Its Application to Treatment in Clinical Cases (La steffe ovarienne et ses applications à la thirapie humaine) Gjulic et obst 1926 un 19

Experiments performed by the author on 33animals of various species showed that ovarian its sue transplanted in animals of the same species can be made to live elaborate the normal internal secretion and assume the germinal function. The likelihood of a successful take increases with descent

in the biological scale

The normal histological condition of some of the authors grafts is shown in illustrations. Tollicle formation and the presence of corpora lutea were noted. The formation of corpora lutea was seen chiefly in the autoplastic grafts whereas in hetero plastic grafts follicle atresa was the rule. In the

homoplastic type the tenden was in the balance.
The ovarian secretion which exerts the chief in fluen e on female morphology and physiology cannot be replaced by other internal secretions, but can be

resupplied by grafted tissue

The relation of the ovarian secretion to the various mammary uterine and other cycles has not yet been established but it is known that ovarian secretion is necessary for the maintenance of these cycles. Nervous disorders influence sexual function by modifying the endocrine action of the ovaries.

\ successful graft will prevent the appearance of the usual effects of castration and will carry the organism to its complete sexual development. In old animals, it causes a profound psychic and somatic

change

In the transplantation of ovarian tissue in clinical cases the receptor is too often in poor general condition the area in which the graft is placed is discased or unsuitable or the grafted tissue is unsatis

The following conditions may be favorably af fected by an ovarian graft (1) infantilism of the gential organs (2) the pathological menopause due to castration (3) dysovinsm and ovarian insufficiency (4) ovarian sterility (5) plurglandular endo crine syndromes and (6) certain mental affections

In the human female autoplastic transplants give the best results but homoplastic grafts have occaionally proved satisfactory. Grafts are used to stimulate impotent ovarian tissue as well as to re-

place removed or destroyed tissue

Ovarian grafts have great therapeutic possibil ities and with increased knowledge and improve ment in technique their use will become more gen eral in the treatment of conditions not amenable to other ovarian therapy. At present they should be used with discretion

GOODRICH C SCHAUFFLER M D

Bolling R W An Ovarian Cyst Free in the Peri toncal Carlty of Three Youths Old Infant inn Surg 1926 levens 546

The author reports the case of an infant 3 months old who had vomited and lost weight since birth In the right lower quadrant of the abdomen there was an elastic mass about the size of a golf ball. At operation the mass was easily delivered and rolled out of the wound as it had no attachment. Evan mation revealed a normal uterus with a normal ovary and tube in the left side but no ovary or tube on the right side. The mass was a multilocular ovariana cyst.

which had become separated from its attachment as the result of torsion The patient recovered I EDWARD BISHKOW M.D.

Shaw W Krukenberg Tumors of the Ovaries

Proc Rov Soc Med Lond 1926 viv Sect Obst &
Gynxc 49

Krukenberg tumors of the ovary were first de scribed by Krukenberg in 1896 They are blateral tumors which may occur at any age Their growth is slow and accompanied by ascites They retain the normal shape of the ovaries and have a smooth

Histologically the stroma consists of fibrilliz in the form of spindles with oval nuclei densely packed together. Also predominating are round or oval culs with bright translucent homogeneous proto plasm and nuclei pushed to one pole and flattened out against the cell membrane giving a signet ring appearance. Krukenberg believed the tumors to be fibrosacromatous in type. Later other investigators found them associated with carcinoma of the stomach. The author reports five cases

In view of the fact that in the vast majority of the reported cases carcinoma was discovered in the stomach it is probable that the ovarian tumors are secondary carcinomata rather than primary fibro sarcomata. I Edward Bushow MD

Princeteau and Magnan Simultaneous Rupture of Both Fallopian Tubes (Rupture bilatérale simultanée des deux trompes utérines) Bull Soc d obst et de gynte de Par 1926 xv 55

The patient whose case is reported was a woman 22 years of age who was admitted to the hospital on November 7 1925 complaining of pain in the lower part of the abdomen and a bloody agual discharge. She had had one pregnancy switeen months previously. Her last regular menstrual period began July 20 1925. In the evening of that day she had san admitted the strength of the strength

On the patient's admission to the hospital her temperature was 37 o degrees C and her pulse 100 Examination revealed a chocolate colored vaginal discharge tenderness in the lower abdomen and a mass in each iliac lossa. The cervix was soft and patielous A diagnosis of ectopic pregnancy on the left side with destrollerion of the uterus was made

Operation revealed on the right side of the pelvis a blush mass the size of too fits and on the left side a swallen fallopian tube with a perforation about z cm in diameter from which blood was escaping. The mass on the right side was apparently a harmatocele. It could not be removed completely as it seemed to be attached to the rectume. A left salpingectomy and a subtotal hysterectomy were performed.

Satisface of the description of the salpingectomy and a subtotal hysterectomy were performed.

EXTERNAL GENITALIA

Watson, B P A Technique for the Operative Treatment of Rectocele Edinburgh M J 1926 ns xxxiii Edinburgh Obst Soc 6t

The essential feature of Watson's operation for rectorcle is the isolation and repair of the special fasciomuscular sheet which supports the rectum and in all cases of rectorcle is deficient. This rectial fascia is a broad strong sheet of musculofascial tissue in close relation to and supporting the an terior rectal wall and lying deep to the levator an muscle. It is in intimate relation to the posterior vaginal will in its middle third and becomes continuous at the sides of the cervix with the fascial layer which is the main support of the bladder Rectorcle is the result of injury to this fascia

In the operation described an incision is made through the mucocutaneous juncture round the poste

rior part of the vulvar orifice. In the elevation of the flap from the posterior vaginal wall blunt scissors are used. Each side is opened and held up by for ceps so that the median scar can be seen and can be dissected away without injury to the rectum Two bands are found attached to the flap which do not wipe away easily and represent the torn rectal fascia Below this and on each side is the mass of levator muscles and fascia which, in the usual operation are joined together by interrupted sutures as a rule under considerable tension. In the author's operation a deep bite is taken into the fascial sheath above the upper margin of the rectocele on each side and when this suture is tied the fascia is over lapped above the rectum. A continuous suture is usually employed

In addition to curing the rectocele, the fascial union restores the support of the pelvic floor

HARRY W I INK, M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Kupfer M Ovarian Pregnancy Following Opera tion for a Tubal Pregnancy on the Same Side (Ovanalgravitaet nach gleichseitiger openerter Elleiterschwangerschaft) Zentralbi f Gynack 1925 Vhz 2241

Kupfer reports the case of a 26 year old woman who had been operated upon for tubal pregnancy on the left side and upon whom he operated for a suspected extra uterne pregnancy. At the second operation a large quantity of dark blood was found in the abdominal cavity. The left ovary had been transformed into a tumor the size of an egg. The stump of the left tube which was 1 cm long was not connected with the ovary. The right adners were normal Extripation of the left ovary was followed by uneventful recovery.

The specimen showed evidence of a fetal sac No histological examination was made. The author assumes that there was an external migration of the spermatozoa but admits that patency of the stump of the left tube could not be ruled out definitely

VON WEINZERL (G)

Von Bodó R and Llebmann S Investigations Regarding the Calcium Ion Concentration of the Blood in Puerperal Eclampsia (Untersu chungen ueber die Calciumionenkouzentatuot de Blutes bei puerperaler Eklampsie) Arch f exper Path u Pharmakol 1035 ct x178

The authors examined the blood serum of women with eclampsa for ionized calcium according to Trendelenburg's method of perfusing the frog's heart. These studies followed those of Lamer Rissmann and Achrer who found the calcium con tent of the blood lowered in eclampsia and attributed the convulsions to a calcium hypo joins.

In the authors investigations sera which had been kept on nec for twenty, four hours were tested on the isolated frog s heart. If a reduction of the contractions occurred further tests were made to determine whether the addition of calcium ions would prevent such a reduction. The serum first tested was obtained from thyrodectomized dogs in which tetany had been produced by the removal of the parathyroids.

If was found that the normal contractions of the frog's heart perfused first with Ringer's solution were decreased when the serum of the parathy rondectomized dogs was added whereas when cal cum ions were added to the serum (o r calcium chloride solution with o if mgm calcium chloride to x c m of the tetany serum) the contractions re turned to normal

In experiments with the serum of normal pregnant women and women who had been recently delivered the contractions of the heart muscle remained normal and no decrease in the calcium content could be demonstrated. Neither was a cal clium hypo iona found in the serum of nine celamptic women whose serum had as little effect on the frog heart as that of normal pregnant and pureperal women. Therefore a decrease in the free calcium ions in the blood which might be responsible for the convulsions could not be demonstrated in puer peral eclamps:

Lindquist S Retention for Nearly Twelve Months of a Mature Fetus in a Uterus Which Is the Seat of a New Pregnancy (Third Month) Acta obst et gynec Scand 1925 by 187

The patient whose case is reported was a para with a normal history who during her fifth pregnancy felt fetal movements after the fifth month but cased to feel them during the minth month When she was first seen by the author she had not felt fetal movements for eight days. She refused intervention

When she returned two months later the fundus seemed smaller and the upper right portion of the uterus seemed to be divided from the lower portion by a sulcus. She again left the service against advice and was not seen again until twenty months from the onset of the pregnancy. On her return she stated that she had had one normal menstrual period six months previously and another four months previously.

Laparotomy revealed a uterus with two parts having no demonstrable connection. The upper and larger part contained a macerated and apparently full term fetus and the lower and smaller portion a fetus about 14 cm long.

GOODRICH C SCHAUFFLER M D

Commandeur Eparvier and Michon Cancer of the Cervix and Pregnancy Coesarean Sec tion Porros Amputation Radium Therapy (Cancer du col utérin et grossesse césarienne am putation de Porro curiethérapie) Bull Soc d'obit et de gynét de Par 1915 av 59

The patient whose case is reported was a 40-year old woman who entered the obstetnical chinic at Lyons in the seventh month of pregnancy with a cancer of the cervit. Examination revealed considerable hypertrophy of the cervit and the exploring fingers became blood tinged. There was a slight induration in the neth vennal cul de sac.

Three weeks after the patient's admission to the hospital she began to lose blood. During the right of August 21 she had a vaginal harmorrhage. Fol lowing a classical cæsarean section in which a living female infant was delivered. Porro's amputation

was done immediately and the abdominal wall The postoperative course was without closed ıncıdent

Lifteen days after the operation the cervix was dilated and two tubes of bromide of radium of so mgm each were inserted from the abdominal open ing In the pericervical vaginal site, three tubes of 25 mgm were placed in a circular drain around the cervix

Three weeks after the application of the radium. examination showed complete disappearance of the cervical tumor and only slight induration in the anterior cul de sac

No mention is made of a microscopic examination SALVATORE DI PALMA M D of the tumor

Michel Fruhinsholz and Mathieu Cancer of the Cervix and Pregnancy Hysterectomy in the Fourth Month End Result (Cancer du col et grossesse hystérectomie au 4e mois résultat éloigné) Bull Soc d'obst et de ganéc de Par 1926, XV 106

The case reported by the authors was that of a woman 40 years old who had had four children, all of whom died shortly after birth On July 25, 1921 when the patient was in the fourth month of preg nancy she entered the hospital on account of marked leucorrhea A diagnosis of malignant new growth of the cervix was made and a Wertheim hysterec tomy performed. The parametrium was not in vaded

Convalescence from this operation was normal, and the patient left the hospital a month later in excellent condition On December 28, 1921 she returned on account of a bloody vaginal discharge Examination then revealed an indurated mass at the end of the vagina Curettage of this mass was followed by the application of radium

On April 10 1925 the patient again returned to the hospital with a bloody vaginal discharge Ex amination revealed a small crater like induration at the end of the vaginal stump A second applica

tion of radium was given

In December, 1925, four years and four months after the hysterectomy, the patient is in excellent The vagina is smooth and shows no ulcerations A small nodule the size of a pea in the posterior part of the vagina the authors believe is a

No mention is made of a microscopic examination of the neoplasm SALVATORE DI PALMA, M D

LABOR AND ITS COMPLICATIONS

Esch P The Occurrence of Brain Pressure and Its Effect upon the Fetal Heart Sounds During Labor (Ueber das Zustandekommen und den Einfluss des Hirndrucks auf das Verhalten der kindlichen Herztoene wachrend der Geburt) Monaisschr f Geburtsh u Gynaek 1925 Ixix 308

There are two types of brain pressure One is the acute type which is due mainly to mechanical factors such as pressure or a blow upon the brain and may occur during operative delivery or the sudden descent of the infant through a narrow pelvis The other is a gradually developing type which is due to a disturbance in the circulation of the blood such as venous stasis or obstruction of the arterial supply which causes cellular injury

The acceleration of the heart sounds resulting from cerebral pressure the author attributes chiefly to vagus irritation rather than to a carbon dioxide overload such as occurs in general asphy via Where as in acute cerebral pressure a rapid recovery of the heart sounds is to be expected the author behaves that when cerebral pressure is manifest an attempt should be made to terminate the labor just as in cases of slowing of the heart due to an overload of carbon dioxide

However if the prerequisites for a forceps delive ery have not been met, there is danger that a forced delivery may cause an increase in the cerebral pres sure which will prove serious for the child Con sequently the danger of waiting until the indica tions for a forceps operation become apparent seems to be less than that of forcibly ending the labor at once HENNICKE (G)

The Technique of Transperitoneal Polak J O Cæsarean Section Surg , Gynec & Obst , 10 6, xlu 551

To decrease the danger of casarean section, pelvic disproportion or fetal malposition must be recog nized either before or immediately at the beginning of labor In the borderline case with but slight dis proportion and only slight deflexion of the vertex. good obstetrical judgment is particularly necessary

Since over 80 per cent of labors in cases of border line contraction terminate spontaneously or can be terminated with the aid of low forceps, it is well in these cases to allow the woman to have a moderate test of labor This is best given in bed, the patient's strength being conserved by rest, the free use of morphine and scopolamine, forced feeding, and the forced ingestion of fluids During this preliminary test the character of the contractions, the contour of the uterus, the pulse, the temperature the prog ress of descent, and the amount of dilatation should be carefully checked

If there is no evidence of advance or no apparent increase in the dilatation of the cervix, a careful vaginal examination with the bladder empty should be done and an attempt made to crowd the perfectly flexed head into the brim If there is much over riding or if the consistency of the head and sutures show that the head cannot be crowded in, casarean section is indicated

Prior to the induction of anæsthesia in such a case the patient should be given an intravenous in jection of 250 c cm of a 10 per cent glucose solution In the pre operative preparation of the genital organs, 1 oz of a 4 per cent solution of mercuro chrome should be slowly injected into the vagina while the hips are elevated on a sterile douche pan This should be done at least thirty minutes before

the operation and is necessary particularly when

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The operation is described in detail and the essentials in the after treatment are discussed

Of chest importance in the technique are (1) the low abdominal nucision (a) the placing of the traction suture in the uterus at the upper limit of the abdominal incision so that when held taut it will completely close the wound (3) the separation of the peritonical flap including the bladder (a) the delivery of the fetus by the h ad (5) spontaneous separation of the placenta (6) the packing of the uterus with washed tooform gauze to stimulate its contraction and retraction (this gauze is usually found in the vagina at the end of twenty four hours) and (7) complete occlusion of the uterus wound by suturing the bladder reflexion over it to prevent pertional leakage and intestinal adhesions.

ROLAND S CRON M D

PUERPERIUM AND ITS COMPLICATIONS

Kirstein A New Procedure for the Treatment of Severe Puerperal Infection (Ein neues Verlahren zur Behandlung schwerer puerperaler Infektion) 1rkh f Gynack 1025 CXX 300

The author's method of treating severe puerperal infection is based upon the continuous intravenous infusion of physiological softum chloride solution used by Læewen with good results in peritonitis moder to strengthen the heart muscle at the same time glucose solution is injected intravenously according to the recommendation of Buedingen

Kirstein uses only a 10 per cent glucose solution He injects 2 or 3 liters intravenously every day According to the requirements of the case stro phynthin or adrenalin is added to the solution

The result of this continuous intravenous infusion may be shown graphically be curves. It consists in a fullness of the circulation which accelerates in a fullness of the circulation which accelerates may be further in creased by the induction of sweating. There is also an increased duriests which increases the bactericidal power of the blood. Three liters of a to per cent glucose solution represent 1,500 calonics. Therefore like protein bodies glucose acts as a stimulant.

Fuerst W. Rectal and Vaginal Examinations and the Prophylaxis of Puerperal Infections (Die Bedeutung der rectalen und vaginalen Untersu chungsmetho le fuer die Frophylaxe puerperaler Wundinfektionen) Irch f Gynach 1935 crvs 393

In order to determine whether rectal examination is to be preferred to vaginal examination in the clinical conduct of labor the author reviewed a organized success. Up to one hour of labor and from one to three hours after the rupture of the bag of waters the temperature rose above 38 degrees. Cless frequently after rectal examinations than after vaginal examinations and incidence of 10 a to 13.5 per cent). Moreover the incidence of 10 a to 13.5 per cent). Moreover the incidence of prutiente infection was six times as high in the cases examined vaginally as in those examined rectally.

Fuerst concludes from this study that the vaginal examination should be used only when it is most definitely indicated and that for the instruction of students and midwives the rectal examination is the method of choice

Herschiv (G)

Bovin E A Case of Puerperal Streptococcal Sep ticremia with Sequestrating Osteltis of the Right Public Bone 1cta obst et gance Scand 1925 IV 183

A woman 42 years of age had a difficult forcepe cluvery resulting in the death of the child tears in the vagina and cervix and streptococcal septicemia. When she was discharged from the hospital at the end of about six months she romplained of pain in the right leg. A vear later this pain was still very severe and caused disability. An orthopedist treated the patient for hip disease but the disability continued. Two years after the patients delivery a stimus was discovered which opened into the vagina opposite the right pubs and drained foul pus. Ying veramantion disclosed a sequestrating obstitute of the right pubsic bone and a wide disast assists of the public rain.

The author states that the lesion in the pubic bone might have been secondary to an injury of the symphysis caused by the forceps delivery but he believes it more probable that it was due to direct extension to the bone of infection from a vagina tear Goodberger & Schuffferer M.D.

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Fuchs F Studies of the Inner Topography of the Kidney (Untersuchungen ueber die innere Topographie der Niere) Zischr f urol Chir 19, xvii 164

This is a study of importance to every surgeon operating on the Lidney. The possibility today not only of diagnowing the presence of a stone in the kidney but also of locating it exactly becomes of practical value only when the stone can be removed by the best route as determined anatomically. To determine which route is best the author studied numerous corrosson preparations of the arteries were an epilese of injected kidneys and the roent genograms of kidneys filled with contrast material The most important findings were the following

The interlobar arteries branching off from the main artery course along in the renal sinus nearly parallel with the cilyces. On entering the sinus these vessels sometimes cross it at an acute angle corresponding to the spaces between the calyces one plane lying immediately ventral and the other dorsal to the pelvis. At a point about 3/2 cm before their entrance into the renal parenchyma vessels from the ventral group of branches pass dorsally through the calyx interstices and then course along with the dorsal group. Except in the parenchyma it is rare that the interlobar arteries of the dorsal

group join the ventral group

injury of an interlobar artery

Therefore if trusting to the independence of the anterior vascular region from the posterior vascular region the surgeon uses the autopsy or the Zondek incision cutting through into the calvees he will invariably enter a zone about 1 cm thick in which there is an overlapping of both vascular regions and vessels of the caliber of the interlobar arteries will be opened. The dividing line between the terminal branches of the anterior and posterior interlobar arteries lies as Zondek has stated, nearly always from 1/2 to 3/4 cm behind the line of convexity of the Lidney However in the author's opinion this line is of secondary importance because the terminal branches are of small caliber Arteries of this caliber are cut in every incision into the parenchyma and their injury is of much less importance than the

There is no constant relationship between the form or type of the renal pelvis and the manner in which the blood sessels branch. The bipartite renal pelvis demonstrated py elographically does not hive as might be assumed a separate cranial and caudal vascular region. The space between the two main pelves harbors like a small calva interspace interlobar vessels which pass from the ventral to the dorsal group frequently in fact it is the chief

ventral branch which passes dorsally in the large cally interspace. Therefore when the bipartite pelvis is approached from the convexity of the kidney this main branch may be injured.

From these anatomical findings it appears that a stone revealed by pyelogram or by filtoroscopic examination of the luvated kidney is approached best not by an incision on the convexity of the kidney but by a radial incision made on the dorsal or central surface.

The main facts stated concerning the interlobar arteries apply also to the veins. A finding of importance with regard to hemorrhage due to a tumor and the location of the source of the bleeding in so called essential hæmorrhage is the fact that the forms calicis is surrounded for three fourths of its circumference by a network of veins of the caliber of the interlobar veins This network lies directly on the wall of the cally without any interposed sinus fat Therefore hæmorrhages from these veins enter not the fatty tissue of the sinus but the calvy This fact explains also why fluids injected into the renal pelvis not infrequently enter the venous system. The formy calicis must be regarded as an area which is predisposed to venous hamorrhages into the renal pelvis PFLAUMER (Z)

Pflaumer E The Physiology of the Renal Calyces and the Renal Pelvis (Beobachtungen zur Phy siologie der Nierenkelche und des Nierenbeckens) Verhandl d Deutsch Gesellsch f Urol 19 5 p 62

The excretion of urine from the renal pelvis is not continuous but intermittent. Continuous drop ping of urine indicates dilatation and stass of the urieter or renal pelvis. Immediately after a eries of drops the renal pelvis is not empty and if the end of the catheter less in a calve instead of the renal pelvis not a single drop of urine can be expressed or aspirated. Urine can be obtained by retrograde catheterization only after from twenty to sixty seconds. The urine is therefore poured intermittently from the papille into the renal caly and in the intervals the cally a sclosed against the pelvis.

From these facts the author assumes that certain anunc conditions are caused by spaem of the papillari sphinicipes. The failure of the periodic closure of the papilla due to tasis in the renal pelvis is increased (increased infiltration) and the pressure exerted upon the urine in the medullary substance is diminished (diminition of resorption). This explains the polivina occurring in prostatic conditions and may possibly explain also certain deviations in the urinary secretion which are found to occur in tuberculosis of the tips of the papille.

SCHEELE (Z)

limit of safety for a complete prostatectomy was found to be 50 mgm of non protein nitrogen and 3 5 mgm of uric acid per 100 c cm Experience has shown that if the values of these constituents are higher it is advisable to perform a preliminary suprapulic cystotomy and delay the enucleation until the values fall within the limits of safety

The blood urea content is much less reliable than the non protein nitrogen and uric acid contents A high blood urea content must always be regarded as a serious sign but reference to the tables presented by the authors shows that a low urea content can not always be regarded as an indication of normal

kidney function

In conclusion the authors state that laboratory findings should never be relied upon alone but should always be considered in their relation to the patient's clinical state

IOHN G CHEETHAM M D

Rolnick H C Catheterization of the Ejaculatory Ducts Surg Ginec & Obst 1926 xli 667

In an examination of twenty nine autopsy speci mens of the prostate posterior urethra ejaculatory ducts seminal vesicles vas deferens and testicles the author found that the urethral orifices of the ejaculatory ducts are often difficult to locate because of the fact that they open on the margins of or within the utricle

When the seminal vesicles were injected through the ejaculatory ducts the fluid entered the vas deferens in only eight of the fifty eight specimens Therefore medication of the seminal vesicles through the ejaculatory ducts seldom accomplishes its pur pose since the ampulla of the vas deferens which is always involved in the pathological process can be injected in only a limited number of cases J SYDNEY RITTER M D

Retterer E The Evolution of the Testicles of the Bull After Crushing of the Vas Deferens (Evo lution du testicule du taureau après écrasement du canal deferent) J d urol med et chir 1926 vti 14

The peasants of the Vosges use bulls for farm work Up to the age of 2 years these animals are docile but after that they become violent and dangerous To prevent this change the peasants cru h the vas deferens by pa sing it through a groove in a cylinder placing a wedge of wood over it in the groove and striking the wedge several times with a heavy ham

The entire obliteration of the vas deferens cau es the epithelial lining of the seminiferous tubules to be come transformed slowly into reticular tissue. This process is not an atrophy but a simple hypotrophy due to a change in structure Sexual libido and potentia coeundi decrease and finally disappear al together They can be reestablished by means of testicle grafts

These facts indicate that the epithelium of the seminiferous tubules is the source of the internal secretion of the testicle Audrey G Morgan M D

MISCELLANEOUS

kuemmell H Sr Hæmorrhages from the Ilvi nary Organs (Die Blutungen der Harnorgane) Deutsche Zischr f Chir 1025 cxcii 143

In cases of hamorrhage from the urmary tract certain conclusions can be drawn as to the focus of the disease from the nature of the hamorrhage

If the blood flows spontaneously from the urethra without urination the source of the hæmor rhage is in the urethra

2 If clear urine is passed at first and blood appears only at the end of urmation the lesion is in

the bladder 3 When the urine is uniformly bloody the lesion may be in the bladder or the upper part of the

urinary tract Typical of lesions in the upper un nary tract are worm shaped coagula formed in the nreter In cases of unexplained hæmorrhage from the

urethra urethroscopy offers information

In cases of bladder hæmorrhage it is possible to determine the nature and extent of the hæmorrhage The most important causes of by cystoscopy bladder hæmorrhage are hypertrophy of the pros tuberculosis papilloma and carcinoma Varicosities of the bladder are very rarely the source of hamorrhage Vesical calcult and foreign bodies usually offer no diagnostic difficulties cystitis especially of the ulcerating and necrotic forms may give rise to severe hæmorrhages Tuber culosis of the bladder is always secondary to pri mary tuberculosis of the kidney Injuries of the bladder are usually associated with characteristic symptoms such as severe pain excruciating stran gury and inability to urinate. In ruptures of the bladder only small amounts of bloody urine are obtained even with a catheter This so called bloody anuria is a positive sign of rupture

In cases of hæmorrhage from the upper urinary tract the diagnosis is more difficult but catheteriza tion of the ureters roentgenography and especially pyelography and tests of kidney function will reveal the nature of the condition. In cases of renal tumors the diagnosis is sometimes difficult

particularly in the early stages

Massive hamorrhages may be caused also by polycystic degeneration of the kidneys

The differentiation between tumor of the renal pelvis and tumor of the ureter is facilitated by pyelography which reveals form changes and filling defects The results of operation on tumors of the renal pelvis and ureter are favorable

In tuberculosis of the kidney the initial hamor rhage is often the first sign. Tuberculosis should be suspected in every case of cystitis which is refrac tory to treatment and in which the urine is acid and contains leucocytes The diagnosis is confirmed by the demonstration of tubercle bacilli by microscopic examination cultures and animal inoculations Tuberculosis of the kidney is almost always a uni lateral disease which infects the bladder secondarily

The treatment is nephrectomy performed as soon as possible Treatment with tuberculin has so far failed to cure

In cases of hamorrhage due to calculi the diag

nosis is rendered easy by the \ ray

The diagnosis of renal injury is usually not diffi

cult but as the severity of the injury cannot be judged from the amount of hæmorrhage exposure of the kidney resection of pieces of kidney which have been torn off union by suture or removal of the entire torn organ should be done early

In conclusion the author discusses the difficulties in the differential diagnosis of renal hæmorrhages from nephritis and unknown causes Denks (Z)

Bazy P Horteloup's Resection of the Perineum for Complicated Gonorrhead Strictures (Résection du périnee pour rétrécissements blenorra grques compliqués méthode d'Horteloup) J d'urol mêd et chir 1935 X 353

Bazy reports the case of a man of 45 years upon whom he performed an internal urethrotomy twelve years ago. After that operation the scrotum became greatly enlarged and an indurated mass the size of a hen se gg caused a protrusion of the perincum. At the second operation Bazy made a racket incision in the perincum by Horteloup's method and removed the indurated tissue from around the urethra. A retention catheter was left in place for six days.

Brief notes are given also on a number of similar cases in which gonorrhoad stricture of the membranous part of the urethra was complicated by

induration or fistula

The chief requirement in the operation is the removal of all sclerosed tissue. The incision must be curried into tissue that is normal or the scar will retract. Sclerosis is produced by attenuated infection and if an incision is made in the midst of sclerosed tissue the infection may be spread. In many cases the operation can be limited to a peri urethrectomy by simply removing sclerosed tissue the urethra their remains supple and can be dilated as soon as the pressure of the indurated tissue is

removed In other cases it may be necessary to resect from 2 to 5 cm of the utethra Sometimes the entire circumference of the utethra must be resected, while in other cases there may be a band of normal nuccous membrane on the upper surface which should be spared If the distance between the two ends of the utethra is too great for suturing the ends may be brought closer together by threads The utethra must be carefully, dissected from the sclerosed tissue Only sclerosed tissue need be removed even considerable exdema of the sur rounding tissue will subside when the pressure of the induration is removed.

Horteloup believes that the wound need not be sutured but may be left to close spontaneously over a retention catheter. Bazy sutures the wound but like Horteloup does not find it necessary to remove the urine by suprapubic incision. It is well to leave a retention catheter in place for several days to prevent the entrance of urine into the tis sues through a possible minute opening in the urethra. In cases of traumatic stricture in which there is no indurated tissue and it is practically certain that an exact union of the two ends of the urethra can be brought about, preliminary drain age of the urine through a syprapubic incision is of advantage Bazy uses for internal urethrotomy a special instrument of his own by which three in cisions may be made one on the left inferolateral surface of the urethra one on the right inferolateral surface and one on the upper surface -and incision can be limited to the strictured area. Sometimes when there are strictures of other parts of the urethry the permeal or scrotal permethrectomy should be supplemented by internal urethrotomy of the constricted parts

Some surgeons maintain that stricture of the membranous part of the uterbra does not result from gonorrhea but Bazy and Decloux have demonstrated such strictures by macroscopic and microscopic examination. They admit however, that they may be only prolongations of a stricture of the premembranous or anterior urethra.

AUDRLY G MORGAN M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS, ETC

Abramowa A Exostosis Bursata (Zur Frage der Exostosis bursata) Zentralbi f Chir 1925 lii 2649

The author briefly reviews the theories that have been advanced with regard to the pathogeness of exostosis bursata and then discusses the treatment especially the surgical treatment employed for this condition

Exostosis bursata is a benign tumor that arises from the epiphyseal portion of the bone. It consists of bone and cartilaginous tissue covered by a

connective tissue capsule

It occurs most frequently on the femur shoulder, jaw and phalanges and is found more rarely on the tibia clavicle pelvis ribs vertebræ and other

Abramowa reports an instructive case discussing the anatomicopathological and Y ray findings and the treatment. This case is of special interest because free bodies were found in the capsule STREPHANY (Z)

Cokkalis P Dupuytren's Contracture of the Palmar and Plantar Aponeuroses (Dupuy trensche Contractur der Palmar und Plantar aponeurose) Deutsche Zischr f Chir 1926 CKCIV 256

Numerous theories have been advanced as to the cause of Dupuţten's contracture but none has been entirely satisfactory. Krogus studied the hereditary aspects of the condition. In the early stages of development small muscles are found in the hands and feet instead of the connective tissue and fascial sheaths. Even in the newborn infant the palmar aponeurosis contains strated muscle elements. Therefore it must be regarded as a tendon structure of muscular origin. This theory is supported by the fact that similar changes are found also in the feet.

The author reports a case in which the contracture occurred first in both hands and a year later in the feet

Braun (Z)

Wilensky A O and Samuels S S Osteomyelitis of the Sternum Ann Surg 1926 lyxxii 205

This article reviews the literature of ostcomyelitis of the sternum and summarizes the findings in twenty one cases previously reported. To these cases are added three new ones. The sternum is the site of the infection in about 0 003 per cent of cases of ostcomyelitis.

The authors review the pathogenesis of the condition and discuss its complications

FREMONT A CHANDLER M D

Allison N and O Connor D S Cysts of the Semilunar Cartilages Report of Two Cases of Cyst of the External Semilunar Cartilage and One Case of Cyst of the Internal Semilunar Car tilage Surg Gynec & Obs. 1926 xh. 290

Allson and O Connor review the literature of cysts of the semilunar cartilages and add two cases of cysts of the internal semilunar and one case of cysts of the external semilunar. They summarize the characteristics of the e cases as follows

The cysts were multilocular
 Except in one case they have no endothelial

lining
3 There was no evidence of an inflammatory
reaction

4 They were filled with a mucoid substance
5 In all cases they were located in the mid por

tion of the semilunar cartilage on the external border
6 In one half of the cases there was a definite
history of injury

7 The cysts reached their maximum size quickly and their remained stationary
8 Most of the patients were in the second decade

8 Most of the patients were in the second decade of life o Spontaneous recovery never occurred Re

currences sometimes developed when the entire cartilage was not removed 10 Pain was noted on complete extension and

acute flexion of the knee

FREMONT A CHANDLER, M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Jessen II The Importance of the Periosteum in the Origin and Treatment of Pseudarthroses (Ueber die Bedeutung des I enosts bei der Entste hung und Behandlung der Pseudarthrosen) Arch f klin Chir 1925, luxvis 189

The author discusses the theories of Lexer and Ber as to the pathogenesis of pseudarthrosis. He is inclined to accept the view point of Lexer regarding the great importance of the persosteum and it moursiment in the formation of callus. He accepts also the theory of Sudeck concerning the importance of the dead spaces. The trauma producing the fracture causes also spaces in the soft usage which the surrounding muscles cannot fill Blood gathers in these spaces and the formation of callus will be the more extensive the larger the dead space providing they are lined with sufficient persosteur.

Stripping of the periosteum from the bones is not in itself injurious but stripping of the musculature from the periosteum greatly hinders bony healing. The tendency of the callus to extend depends not

on unknown hormonal stimuli as Bier thinks, but upon the filling in of the dead spaces by new bone, as suggested by Sudeck Moreover, the formation of parosteal callus depends, not upon metaplasia, but upon misplaced periosteum. The mystery of traumatic my osity ossificans is similarly cleared up

The practical results of Sudeck's very simple personsieal theory are illustrated by several successful operations for pseudarthrosis. These operations were divided into three parts replacement of the fracture ends, joining of the fracture ends, and the replacement of the periosteum. The third part is of special interest because of the use of Sudeck's method of transplanting the periosteum which consists in cutting it circularly and placing it, to gether with its muscular attachments, over the site of the fracture. The good results of this procedure are evident in the roentgenograms. Bown (Z)

Naervi E J Contributions on the Regeneration of Tendons and the Treatment of Tendon Ruptures Particularly in the Region of the Synovial Sheaths Acta chirurg Scand, 1926 by 1

After tenorrhaphy the ends of the tendon are united by granulation itssue formed by the connective tissue of the external and internal pentenon and the tissues surrounding the tendon. The ends remain passive and do not seem to form any new tissue. The connective tissue outside the tendon forms more of the granulation tissue between the ends than the pentenon and is therefore of more importance for the healing of the tendon wound

In the endothelum covered sheath of the tendon the pentenon grows over the ends of the tendon forming a kind of amputation stump which does not unite But if sutures are passed through the cut surface, granulation tissue is formed from the pentenon tlong and around them and this is later transformed into a tendon like tissue uniting the ends Therefore the sutures used by Wilms, Lange and Frisch are more appropriate than those used by Dreyer, Woelfler Trika and Schuessler which avoid the cut surface

The synovial fluid does not affect the regeneration of the tendon disadvantageously nor check it. The form and the structure of the cicatrix of the tendon is consequently quite the same within and outside of the sheath of the tendon.

For the restoration of function it is necessary to spare the sheath of the tendon in order to facilitate the gliding movement and to keep the tendon in correct position. Only by regular exercises without immobilization is it possible to prevent afthe sions of the tendon and, in cases of ruptured flexor tendons, to obtain the best possible functional results.

Abbott L C and Jostes F A A Simple Method for the Correction of Deformity in Bony Ankylosis of the Hip Joint Surg Gynec & Obst 19 6 th 274

For the correction of deformity in ankylosis of the hip the authors describe a procedure which overcomes many of the difficulties associated with

A subtrochanteric osteotomy is done and the limb fixed in the position of deformity by traction with a Thomas splint Gradual correction is secured by moulding of the callus caused by changing the position of the extremit.

A transverse osteotomy is performed through an musion separating the tensor fascie femors and the sartonus muscles and exposing the femur between the vastus lateralis and rectus femors muscles. The wound is then closed anatomically. After the operation the patient is placed on a gas pipe bed frame of ingenious design and a Thomas splint is applied in the position of deformity, the traction on the leg being maintained. This is left in place for from four to five weeks or until abundant new callus is shown by the X-ray Gradual correction is then secured by bringing the traction splint to the desired position.

The time necessary to correct the deformity is about four weeks. The corrected position is main tained until consolidation of the callus occurs. During this slow manipulation the pelvis is controlled by holding the sound leg flexed at the hip with the knee extended the reverse of the Thomas test for hip flexion. During the period of consolidation of the callus the thigh and calf are massaged. When the patient becomes ambulatory, a Thomas calper splint is worn for several months.

The authors have used this method in four cases, which they report in detail

FREMONT A CHANDLER M D

FRACTURES AND DISLOCATIONS

Thomas T T Habitual or Recurrent Dislocation of the Shoulder Med J & Rec 1926 cvvii 145

A typical subarachnoid dislocation by hyperab duction was first produced in the cadaver by Davis in 1899 but the axillary operation was first per formed by Thomas in 1908 In the author's first case no dislocation has occurred since

The gap between the divided margins of the cap sule becomes bindged by scar tissue. The objection to other incisions is that they do not give a good exposure of the axillary portion of the capsule where the tear invariably occurs. The acceptance of the axillary operation has been retarded by a general lack of familiarity with the axillary vessels and nerves.

Athletes and epleptics are especially liable to develop recurrent dislocations of the shoulder. In the author's opinion, enapping shoulder is a recurrent dislocation in which the tear is not sufficiently great to allow displacement of the head out of the glenoid fossa. It may be corrected by capsulor rhapby

Of thirty three cases traced following capsulor rhaphy, a complete cure resulted in twenty two In six cases the operation was followed by only one dislocation and in two cases by two dislocations. Such

dislocations the author believes are of advantage when the amount of scar tissue already formed is not sufficient to prevent them. The slower the return of motion after capsuloritaphy the stronger the joint. Thomas believes that if the surgeon is familiar with the relations of the circumflex nerve the prognosis offered by the operation is evo

POBERT V FENSTEN M D

Thomson J E M Fixation of Fractures of the Clavicle Another Method J Am W Ass 1926 lexxvi 1517

Thomson describes the use of plaster of Patrs in the treatment of fractures of the clavicle particularly those of the outer end where reduction and immobilization are necessary for both the union of the bone and the treatment of the usually asso

ciated shoulder injuries

For fractures of the proximal and middle thirds a figure of 8 plaster cast is applied over a sheet wadding bandage while the arms are held abducted up and backward. This cast embraces the chest and can be cut out about the neck and arms with out being weakned. It is worn for four weeks. A

mushin handage is then applied for a time. When the fracture is in the outer third of the clavide the cast covers, the whole trunk and in claudes are arm spice, which immobilizes the arm abducted at on degrees with the forearm horizontal and supmared. After two and one half useds the upper part of the arm cast is removed for physio theraps, and after four weeks the whole spica is removed. An unmobilizing mushin and adhesive dissessing is then applied for another week or two

This treatment allows the joint injuries to heal and reduces the period of painful shoulder disability which often follows

CHESTER C GLY M D

Cutler C W Jr Fractures of the Head and Neck of the Radius 1 2 5 H & 1926 Parting 267

Cutter reviews hits cases of tracture of the head and nets of the radius which were treated at the Rousevelt Hospital New York in a period of ten cases. The incidence of these fractures was about the same in both seas. The average age of the patients was ji vears. The oungest subject was 6 years old and the oldsit 53 years. The average age of patients with irrictures of the needs of the radius alone was 15 year. While that of those with fracture of the head of the tradius alone was 25 year.

In twents ca e (40 per cent) the cause was direct trauma to the elbow in a fall and in ten cases (20 per cent) a fall on the extended hand

Examination revealed simple cracking without displacement in seven cases for using of the radial head with separation of one fragment in fourteen cases fracture into multiple fragments in eleven cases and fracture of the neck of the radius in four teen cases. Direct and minreet training were both apparently capable of producing any of the four types of fracture mentioned.

In one case each the fracture of the radius was complicated by posterior dislocation of the ulreposterior dislocation and fracture of the oberanan fracture of the coronoid and fracture of the upper third of the ulia

In nearly all of the cases the pain was referred to the lateral side of the elbow and in all one or more of the motions at the elbow was unhibited. Swelling, about the elbow was noted in two thirds of the cases seen within theatty four hours. Ecchymosis was not common. Direct or indirect tenderness was present in forty three cases.

The treatment v as carried out along conservative lines except in cases showing marked displacement of the fragments or late impairment of function Tremovy 1 Champles WD

Christopher F Fractures of the Head of the Femur 1rch Surg 1926 tu 1949

This study is based on nine fractures of the head of the femur eight of which have been reported in the literature and one of which was treated by the author. The condition is caused by extreme vio lence and is exceedingly rate. In all of the reported cases it was accompanied by a posteroy of isolocition and was probably due to the impact of the dislocating head on the posterior rum of the acetabulum Its possible presence should be considered whenever a posterior dislocation is associated with treptus on passive motion by the diagnosis must be confirmed by New examination.

The treatment of choice is closed reduction under general anaschiesia followed by early active and passive mobilization. If this fails open reduction with removal of the Imagents of the fractured head is necessary. Operative treatment is indicated also when although closed reduction seems success ful function becomes progressively poorer. Regard less of the treatment the progressis so fo function.

is unfavorable CHESTER C GUY M D

Garr C C A Spontaneous Fracture Following

Bone Banding for Fractures J Bone & Jami

Surg 1926 viii 37,

The author reports two cases of spontaneous fracture of the femur following banding by a competent surgeon. Both fractures were due to muscular action. One was subtrochanteric and the other intercondular.

Garr agrees with Scudder that bone bands should be routinely removed. He always removes the band within one month of its application

DAVIEL H LEVINTHAL M D

Albee F H Mechanical Employment of Seques trum Fracture of the Femur 3 Bone & Joint Surg 1026 VIII 125

Albee reports the case of a bov 17 years old who sustained a compound communited fracture of the lower central portion of the shaft of the left femur. The first treatment consisted in wide open drainage and Carrel Dakus pringation. At the end of a month

a Lane plate was applied, but fragments became dis

Three months after the injury, the wound was reopened, the displaced fragments and an extensive osteomy elitis being then disclosed. The lower 4½ in portion of the upper fragment was white and showed a V shaped line of sequestrating demarcation. The fragment ends were re-shaped to form a concavity in the sequestrating portion and a corresponding convexity of the lower fragment, the ends then being approximated with traction and the mortise further secured with kangaroo tendon. The wound was packed with iodoform gauze and the legistration of the security of the spice of the security o

At the end of four and one half months an \ ray examination through the cast showed the formation of callus and an involucrum The sequestrum was removed through a window in the cast The con

dition progressed favorably and the patient was dis charged five and one half months after his injury

Physiotherapy was then instituted, but because of the limitation of motion at the knee, another operation was done. This showed adhesions between the shaft of the knee and the quadriceps. After the theration of the adhesions, a piece of fascia lata was inserted between the femur and muscle. However, in spite of strenuous physiotherapeutic measures, only 30 degrees of motion at the knee could be obtained. Subsequently, an attempt was made to fasc the

Subsequently an attempt was made to flex the knee by force under general anæsthesia. This was prevented by tense fascial bands on the anterior and lateral aspects of the lower portion of the thigh Subcutaneous fasciotomies were therefore done.

The limb is now only 34 in short and has free, active and painless motion to beyond a right angle ROBERT C LOVERGAN, M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Haberer 11 A Case of Successful Suture of the Portal Vein (Ueber einen Fall von erfolgreicher Naht der Vena portæ) II sen med II chnschr 1925 ITTL

Haberer reports a case in which in the course of a gastroduodenal resection for an ulcer in the middle of the stomach there occurred the exceedingly rare complication of injury of the portal vein. He was able to meet the emergency successfully. The case was one of hourglass stenosis. The stomach and the post part of the duodenum were closely adherent to the undersurface of the liver. These adhesions which were found due to the penetration of a callous ulcer deep into the liver were very difficult to loosen

The ulter was shelled out of the liver with an electric cautery and a thick strand which was mo t intimately adherent to the picer tumor was caution is incised longitudinally. This resulted in a very approus hemorrhage. The author introduced his finger into the foramen of Winslow and thereby stopped the bleeding so that he was able to make a carciul examination as to its source. He found that the blood came from a vein the size of the finger whi h had been shit open on its anterior wall for a hit in e of a cm. This vein proved to be the dis place low real year

Is it was possible to keep the vessel closed off with the huger which had been introduced into the foremen of Wooslow, the sht in the vessel was the el with ease with interrupted sutures and with out evident narrowing of the vessel lumen. Re-

covery resulted

I prevent air embolism and hæmorrhage in cases of injury of the portal vein the author recom men i construction of the henatoduodenal heament by tay my it up on a finger introduced into the fora men of Winslow No form of tamponade and com pression from in front gives as good results

Pfaff O G Ligation of the Inferior Vena Cava 1 + 1 (1) 1 5 Gree 2926 xx 660

COLLEY (Z)

The author reports a case in which the vena cava ruptured into a retroperatoneal cyst and he ligated above and below the rupture An almost uneventful recovery resulted. Ten days after the operation a slight swelling in the legs and thighs became apparent but two years later the patient was in good bealth

Such cases show that ligation of the inferior vena cava (at least in a favorable situation) is not neces sarrly a disaster. It seems to be clear that the col

lateral circulation is rapidly developed to the extent that after a few neeks the early cedema is only slightly evident and eventually disappears altogether

As a rule ligation is probably safer than suture of the wounded vessel but if the site of injury is found at or above the renal vein every effort must be made to repair the vessel as ligation in that locality would inevitably be disastrous

E L CORVELL M D

BLOOD TRANSFUSION

Rubin E II The Clinical Value of the Erythrocyte Sedimentation Reaction in Surgery Surg Gynee & Obst 1926 xlu 652

The sedimentation reaction is the speed with which red blood cells settle in a citrated column of blood The author uses the following method for this test

Into a sterile 2 c cm. Record syringe a solution of 3 8 per cent sodium citrate is drawn up to the 0 4 mark Blood is then aspirated from an arm yein to the 2 c cm mark a dilution of 14 being thereby obtained After thorough mixing in small Wasser mann test tubes the samples are taken to the laboratory where the blood is drawn up into long serological pipettes graduated into hundredths, which are placed in a suitable rack the layer of plasma then being observed at the end of one two and twenty four hours and read directly in per cent

The reading made at the end of the second hour is the most significant one

After studying the reaction in too cases Rubin summarizes his findings as follows

- In surgery the erythrocyte sedimentation reaction was found to be a more reliable indication of the patient's condition than the temperature chart
- Its disgnostic and prognostic value were secondary to its value in indicating the acuteness of a process
- 3 Extrasurgical complications such as syphilis or tuberculosis tended to maintain high readings in snite of improvement in or even a cure of the surgical affection. In the absence of such complications repeated tests may guide in the discharge of nationts but for many reasons it would be impractical to keep patients in the hospital until the reac tion reaches normal limits
- Because the test indicates the severity of tissue destruction it should be of value in deter mining the advisability of operation and the time at which it should be performed

JOHN J MALONEY M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Davis J S The Treatment of Deep Roentgen-Ray Burns by Excision and Tissue Shifting J Am M Ass, 1926, lxxxv1 1432

The author states that when in cases of deep romeign ray burns, the ordinary local methods have been tried for a reasonable length of time without satisfactory results, nothing is to be gained by the further delay of operative measures I none of the cases referred to him has treatment with ultra violet or other rays been beneficial Early excision of deep burns with tissue shifting promises more surely than any other method jet known a prospect of permanent relief in a comparatively short time

The evasion of the ulcer and the surrounding area of induration should be as radical as possible Occasionally, when the exposed tissues seem normal and the excision has been complete, the author grafts skin immediately, but in the majority of cases, in which general oozing occurs, he first covers the wound with perforated cellosilk or with gauze impregnated with a 3 per cent bismuth tribrom phenate (zeroform) omtiment and then packs the depression snuthy with sterile sea soonees

After forty eight hours the dressings may be removed without causing pain or bleeding, and after a few davs during which compresses saturated with physiological sodium chloride solution are applied continuously the granulations usually sprout and are ready for grafting Gauze saturated with balsam of Peru, one part and castor oil, three parts is also used to stimulate granulations

In the greater number of cases requiring grafting the author prefers small deep grafts. Occasionally he uses Olher Thersch grafts, but when the defect is large he prefers whole thickness grafts. In a number of cases he has used pedunculated flaps from neighboring itsues which have not been changed by the rays or from a distant part and has found them of great value when a pad of fat was necessary in addition to the skin

If conditions are favorable, the flap is shifted onto the fresh wound immediately after the excision of the burned area but if the shifting is delayed the results are better if the granulating area is removed before the flap is sutured into its new bed

When the burn is comparatively small and in a favorable position it may be excised completely by an elliptical incision and the skin then closed with sutures after undercutting. Massage is begun on the grafts about three weeks after healing has taken place and is continued for several months.

By this treatment pain is eliminated and in many instances patients who have been incapacitated for

years are enabled to return to their former activities

Davidson, E. C. The Prevention of the Toxæmia of Burns Treatment by Tannic Acid Solution Am. J. Surg., 1926 xl, 114

If a severely burned patient survives the acute period of depression or shock, another syndrome develops viz, that of toxemia. In the cases of twelve patients with second degree burns and twelve with third degree burns the blood chlorides were found to be very low. Sodium chloride was therefore administered orally rectally, subcuta neously, or intravenously as indicated.

In the belief that the tōxemia is due to the absorption of a protein derivative at the site of the burn the author coagulates or precipitates the devitalized tissue by applying a dressing wet with 2 5 per cent tannic and He has found that this lessens the toxemia everts an analgesic effect limits secondary infection promotes epithelialization and limits scar formation. After the tissues become a light brown the dressings are removed and the area is exposed to the air.

J. Frank Dougray, M.D.

Seifert E Bacteria in the Blood After Operations
(Ueber Baktenenbefunde im Blut nach Operationen) Arch f klin Chir 1925, cxxxviii 565

After an operation on an infected region of the body, bacteria appear in the blood in a relatively large number of cases. It seems that this depends to some extent on the nature of the eventing organ ism. In the cases reviewed by the author the blood findings were positive in 54 per cent of the cases with a staphy lococic infection, 30 per cent of those with a streptococic infection, and 25 per cent of those with a bacillus colo infection. It is evident also that the anatomical relations of the disease focus are of great importance. Operations on tissues rich in veins are more apt to be followed by bacteriæma than those on other tissues:

After operations on acute abscesses and phleg mons, defective localization of the processes is evidenced by positive bacterial findings in the blood in 50 per cent of the cases, where a after operations on older, better walled off subacute and chronic processes bacteria are found in the blood in only one fifth of the cases Other factors of importance in bacterizemia are the method of operation and the handling of the tissues

In 204 cases of operation on a purulent condition, postoperative bacteria.min developed in ninety one In general, postoper tive becteramia is usually not associated with alarming phenoment. In none of the cases observed by the author has a septic condition developed.

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Siye Maud The Inheritance Behavior of Cancer as a Simple Mendelian Recessive on the Nature and Inheritability of Sponta neous Cancer in Mice J Cancer Research 1926

In every test made in studies of the nature and inheritability of spontaneous cancer in mice every neoplasm has been found to occur in accordance with the mendelian expectation for a simple re-CESSIVE

The cancer resistant and the cancer susceptible tendencies have been proved inheritable

By the hybridization test the tendency toward cancer resistance has been proved to be dominant over the tendency toward cancer susceptibility and both of these tendencie have been proved un questionably inheritable following the mendelian nattern very closely

The types of cancer and the sites where cancer is likely to occur have been proved inheritable by both the inbreeding and the hybridization tests These characters also have closely followed the JOSEPH K NARAT M D mendelian pattern

Burrows M T The Mechanism of Cancer Metas tasis irch Int W d 19 6 xxxvii 453

In Burrows opinion the cancer cell is merely a normal cell reacting to stagnation and cell crowding in its immediate environment

Cancerous and embryonic tissues are rich in a substance or substances (archusia) which accumu late in a stagnant environment. Adult tissues con tain only traces of these substances

The chief cour e of metastases of cancer is always along the lines of surface drainage from the original

Metastases in cancer are not due to a simple migration of cancer cells from the cancer to distant organs but are primarily the result of the spread of a liquid substance from the main tumor mass. This substance is liberated through the digestion of cells in the center of the mass of cancerous tissue. It is a product of the oxidation of the cell and is rich in growth stimulating substance. It stimulates not only cancer cells but all o normal cells. It can flow over any water surface. The cells move into it. The fluid precedes the spread of cancer cells and metas tases

The author concludes that the whole phenomenon of cancer can be reproduced by simply cutting down the blood supply to a cellular tissue and allowing the cells to revert from the differentiated to the growing state IACOB S GROVE M D

De Asis C Cutaneous Carcinoma of the Lower Extremities Ann Surg 1926 lxxxiii 663

The author discusses the varieties of carcinoma occurring in the lower extremities and the course taken by the disease in this region of the body The two most important types of cutaneous car cinoma are the squamous cell and the basal cell types Males are more frequently affected by cu taneous carcinoma than females The ages of four of the author's patients ranged from 20 to 32 years Trauma is an important factor in the etiology. The period of time elapsing between the injury and the first appearance of malignancy ranges from a few months to a year Another predisposing factor is the scar of an old burn Syphilis also has been regarded as of importance in the etiology but of the author's seven cases in which a Wassermann test was made only one gave a positive reaction and in the latter there was a history of trauma at the site of the cancerous growth. The part played by varicose ulcers and varicose veins is unknown but in 310 cases of varicose ulcers the author found malignancy in only one

Metastasis takes place late in cutaneous carci noma of the lower extremities This is explained by the fact that the edge of the ulcer undergoes thick ening and induration which squeezes the lumina of the lymphatic vessels and thus prevents the flow of lymph which ordinarily carries cancer cells

The choice of treatment is determined chiefly by the extent of the malignancy the nature of the growth and the surgeon's experience with the various procedures The procedures most com monly used are amoutation of the limb excision with the cold knife or cautery \ ray irradiation electrocoagulation or a combination of these

The author reports seventeen cases in detail EMIL C ROBITSHEE M D

Blair Bell W Theory and Practice in Relation to the Treatment of Cancer with Lead Brit M J 1926 1 687

The author states that malignant neoplasia appears to be a reversion of the somatic cell to the early embryonic type which forms the trophoblast Pathologists have discussed the undifferentiated cells seen in malignant growths but strictly speak

ing these should be called dedifferentiated cells since they are normal cells which have retraced their way back to undifferentiation

Morphological evidence shows that whereas benign neoplasia is the result of hyperplasia in nor mal tissues malignant neoplasia is a process of dedifferentiation except in the case of chorion epithelioma which represents hyperplasia of a nor mally malignant tissue-the chorionic epithelium

Warburg has shown that although in the absence of oxygen, a normal resting cell has a slight glu colytic power, in aerobic conditions it does not per form glucolysis, whereas malignant tissue everts its glucoly tie power even in the presence of oxygen

The author believes that sufferers from lead

poisoning are not affected by cancer

With regard to treatment he states that the use of colloidal lead in the prevention of recurrence after operation is of such importance that every case subjected to operation for cancer, whether the disease is believed to be totally eradicated or not should be treated as if the disease were still present

Mention is made of the fact that, in the use of colloidal lead disasters have occurred as the result of lead poisoning

JACOB S GROVE, M D

GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Wainwright, J M Tetanus Its Incidence and Treatment Arch Surg 1926 xii 1062

Of 584 men answering a questionnaire sent out by Wannight, nearly all of whom have had extensive experience with industrial and traumatic cases 365, or nearly two thirds stated that they had seen no tetanus in the last four years (1921 1924) in industrial cases

It seems universally agreed by laboratory workers that when tetanus toxin has once united with the cells of the central nervous system the antitovin has no power to break up the union and it would do no good to bathe the cells in antitovin even if this were possible. Moreover, there is no evidence that the antitovic serum injected into the spinal canal gets into the tissues of the cord and brain and as it has been established that the toxin is not present in the cerebrospinal fluid during the disease, no toxin is neutralized by spinal injections.

Antitoxin given by vein in doses of from 30,000 to 50,000 units or more, according to the severity of the symptoms and the time since the onset of the condition, will divide the present average mortality rate by two or three or more. The efficiency of this dose and route depends directly upon the prompt ness with which the treatment is given. If the dose must be repeated it should be approximately the same size as the initial dose and given by vein only In the last days of convalescence intramuscular injections are allowable.

The best sedative is chlorbutanol given by mouth in a dose of 30 gr dissolved in hot whisky or by rectum in a dose of 75 gr in hot olive oil. It should be repeated sufficiently often to keep the patient relaxed and drowsy until the danger is Morkis H kain MD

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International Abstract of Surgery

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Surgical Pathology and Diagnosis

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EDITOR'S COMMENT

THE rôle of infection of the gastric wall and perigastric lymphatics in the development of complications after gastro-enterestomy is discussed in two interesting papers appearing recently in the Bulletin et Mémoires de la Société Nationale de Chirurgie, one by Duval, Roux Gatellier and Moutier (p. 387) and the other by Lecène (p. 386) The former authors believe that a vicious cycle coming on early after operation and gastrojejunal ulcers result from a localized inflammatory process due to extension from the ulcer site in the stomach, and that a vicious cycle developing later results from adhesions and bands formed after postoperative infection. They suggest that the absence of renewed ulceration after extensive resection may be due to the removal of the infected area rather than the climination of the acid secreting portion of the stomach

Case's description of the roentgenographic find ings in mnety cases of diverticulum of the small intestine other than Meckel's diverticulum (p. 388) indicates that this condition is not as un common as is generally believed and must be constantly borne in mind in the differentiation of gastro intestinal conditions with indefinite or perplexing symptoms. Visualization of the duo denum by the introduction of opaque fluid through an Einhorn tube as suggested by Sara ceni Antonucci and Celiberti (p. 386), should be of particular value in the recognition of such diverticula since more than 90 per cent are found in the duodenum.

St. John s presentation of a case of abdominal bihary fistula in which the fistulous tract was successfully dissected free and transplanted into the stomach (p. 386) is a striking example of a high surgical achievement. This case is of particular interest in connection with Seulberger and Pollwein s experimental studies on the substitution of rubber tubes for artificial defects in the bile passages reviewed in the October issue of the ABSTRACT (p. 266)

The papers of Graham (p 368) and Crile (p 369) on the thyroid gland in relation to toxic goiter and the surgical treatment of goiter are

worthy of particular attention because of the authors' very extensive experience with thyroid disease. Ladwig s follow up study of 150 cases of Basedow's disease from the surgical clinic of the University of Lepiza (p 36) alfords an interest ing comparison of the results of treatment of this condition in American and European clinics

New's discussion of surgical dathermy in the treatment of benign lessons and new growths in the nose and throat (p 371), and Sargnons evaluation of the results of radium treatment of tumors of the nasopharynx (p 366) indicate the present day tendencies in the management of

these not uncommon conditions
Kolmers studies on the treatment of experimentally produced streptococcus and pneumo occus meningitis (p. 374) emphasize the value of adequate drainage as compared with the administration of sera and chemical antiseptics. That one treatment consisting of lavage of the pathway from the ventricles to the cisteria magna with from 20 to 40 cc m of Ringers solution was usually sufficient to produce a cure in experiment al animals suggests the possibility of greatly improved results in the treatment of this grave condition.

Manges description of the \u03b5 ray signs of non opaque foreign bodies in the air passages and of methods of localizing them (p 386) and the symposium of kern, Pancoast Tucker and Muller (p 382) on lung abscess are helpful contributions to the rapidly increasing literature on the pathology symptoms and surgical treatment of infectious processes in the lung

Caudère and Guern Valmale's studies on maternofetal blood reactions (p 404) indicate that transfusion of the mother's blood to the infant without prehiminary compatibility tests is not free from danger

A symposium on the surgery of the breast by klopp Billings Manges and Gibbon (9 378), and another on pyelography by Nichols Grant Eisendrath and Arens (p 400) are only two of many interesting and noteworthy reviews in the current issue of the ABSTRACT

INTERNATIONAL ABSTRACT OF SURGERY

NOVEMBER, 1926

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Jenkins G J Ballance Sir C Scott S Tweedie A R. and Others Discussion on Fracture of the Base of the Skull and the Ear Nose and Throat Surgeon Proc Roy Soc Med Lond 1026 xix Sect Otol o

JENAINS calls attention to the fact that in many hospitals the otorbinologict is not asked to make an investigation in cases of suspected fracture of the base of the skull in spite of the fact that such an examination is recognized as advisable. Before the routine examination of the ear and no-e is made it is important to know whether there has been any chronic sepsis in these regions

Bleeding from the nose in serious head injuries is commonly due to fracture of the base of the skull but may be the result of an intrinsic injury of

the nose

When there is destruction of the labytinth a lesion of the lower neuron of the seventh cranial nerve severe bleeding or a flow of cerebrospinal fluid from a torn tympanic membrane or from a wound of the meatal wall there is little doubt that a fracture of the base of the skull has occurred

Injury of the seventh cranial nerve is common It is not unusual for the paresis to increase for two

or three days after the accident

There may be a fracture involving the bony external auditors meatus without rupture of the tympanic membrane or membranous meatus. In such cases the line of fracture may be indicated by a swelling Sometimes the swollen area is discolored Occasionally the bleeding is very slight and the break in the wall impossible to find but usually a bony injury will be indicated by the swelling and distortion

In fracture involving the ear with no bleeding Jenkins applies a 21/2 per cent solution of iodine into the meatus and cleans up the pinna. When the bleeding is profuse he merely cleans the pinna When there is no bleeding or when the hamorrhage

has ceased be attempts to clean the meatus. Syring ing of the ear in these cases is not advitable. When there is a chronic suppurative middle ear disease, the risk is greater especially if there has been escape of cerebrospinal fluid. In such cases, Tenkins establishes free drainage in the region and sometimes goes through some of the stages of the radical masto d operation and exposes the dura along the line of fracture

In cases in which there is no evidence of damage to the dura operative procedures on the bone are contra indicated as an operation may produce in jury to the dura by causing movement of the frag ments

BALLANCE states that hamorrhage from the ear comes from the tympanum or from the years, sinuses or surrounding arteries. He has never observed hamorrhage from the internal carotid coming out of the external auditory meatus except in a case of tuberculous disease of the petrous bone Hæmorrhage from the lateral sinus is rare and likely to be rapidly fatal. Hamorrhage from the middle meningeal arters may be very profuse and demand immediate surgical intervention In cases of hæmorrhage with concussion and loss of consciousness the best procedure is immediate decompression. In cases of hæmovhage from both ears operation

The treatment of pasal injuries should be based upon the same punciples as those observed in the treatment of the ear Ballance believes it is impossi ble to render the no-e aseptic

should be performed on both sides

For cases with a history of sep-is Ballance advises surgery as indicated

In Ballance's cases of fracture through the m.ddle fos a there was total deafness with total facial Some of the patients recovered from the total deafness, but few recovered from the total facial palsy

When these fractures are seen early, the main object of the surgeon should be to prevent the occurrence of sepsis by doing a decompression and to convert a compound fracture into a simple fracture so far as the brain and membranes are concerned SHIRLEY C. LYONS M.D.

Gruca A and Meisels E Asymmetry of the Mandible from Unilateral Hypertrophy Ann Surg 1026 lxxxiii 755

The authors report in detail a case of asymmetry of the mandable and review briefly fifteen similar cases the mandable and review briefly fifteen similar cases the property of the similar cases the property of the property of the property of the property of the head and neck of the right mandable. The typical unilateral programtisms and the malposition of the teeth develop very slowly. The operative treatment employed most frequently is unilateral resceition of the head of the cond-blod process. This usually gives a good cosmetic and functional result.

J Frank Doughty M D

Magaton O A Case of Total Necrosis of the Mandible Due to Acute Infectious Osteomye litis (Un caso di necrosi totale della mandibola da osteomielite acuta infettiva) Ann stal di chir 1226 v 158

Almost all of the cases of total necrous of the due to phosphorus poisoning. Very few were caused by acute infectious distances and the due to phosphorus poisoning. Very few were caused by acute infectious distances and the due to
On October 2r the patient was admitted to the hospital with a temperature of 388 degrees C and sulfering with beadache and intense pain. The pain was felt throughout the mandible but was par ticularly intense at the angle and along the ascending ramus on the left side. The patient sface and neck were enormously swollen and there was marked fluctuation in the suprahyoid region.

An incision was made at the point of greatest fluctuation and the pus drained. The diagnosis based on exploration was acute suppurative osteo periositiis and probably also osteomyelitis of the entire mandible.

Soon all of the teeth became brown lost their lustre and fell out A toentigenogram showed many zones of rarefaction of the mandible and at the periphery a zone of increased density due to the normation of bone. Another roentigenogram made after forty days showed diffuse necrosis of the man dible and the formation by the periosteum of the shell having the shape of the necrosed mandible While the fixtual from the incussion had decreased there were ulcers of the gums through which pus and fra_mments of bone were discharged.

On March 21 1922, a large movable sequestrum constituting the entire body of the mandible was removed On April 24, two other sequestra which represented the two ascending rami of the jaw were removed The suppuration then immediately stopped and the fistula closed

The patient left the hospital with her checks and suprahyod region still swollen and with limitation of the inovement of the temporomandibular joint the newly formed mandible was abnormally large, the body was well defined but the ascending ramiver still a little hazy. The hone was less opaque than the other bones but was uniform in density On May 17, 1924 the newly formed bone was greatly reduced in size and normal in outline both the body and the ascending rami were completely developed All movements of the joint were normal and the patient had no difficulty in eating. She was then sent to a dentist for a set of teeth. The cosmetic and functional results were excellent

AUDREY G MORGAN M D

Pulford D S and Adson A W Surgical Removal and Pathological Study of a Massive Squamous Cell Epithelioma Associated with an Angloma of the Scalp Surg Gynec & Obst 1926 kin 846

In cases of extensive superioral vascular lesions surgical shock can be decreased by the use of local anaesthetics. In the removal of superficial angiom at a bleeding can be prevented by the use of the Heidenhain suture

The cautery knife may be of some aid in con trolling capillary oozing and in causing lymphatic block during the removal of the tumor

Epithelization can be obtained over denuded bone by removing the outer table and subsequently treating the granulating area with paraffin

Angiomatous tumors may be associated with squamous-cell epitheliomata as the result of progressive changes in the overlying hyperplastic epithelium. In such cases the angioma may be considered the indirect cause of the epithelioma.

Doubtful tumors should be sectioned for biopsy If malignant they should be graded before operative procedures are completed or the prognosis is stated The authors report a case of malignant squamous cell entitle lumn arising from the authorism very lumn.

cell epithelioma arising from the epithelium overlying a benign angoina Although approximately one half of the tumor was angomatous the malignant growth was not an angio endothelioma as might be supposed but an epithelioma arising from the epidermal elements overlying the vascular growth

Tavares A A Cavernous Hæmangioma of the Upper Lip (Hémangiome caverneux de la lèvre supérieure) Ann d'anat path 1926 in 147

The case of cavernous hæmangoma reported in this article was that of a woman 40 years of age. The tumor was attached to the upper lip by a short pedicle which occupied a large part of the free border of the lip. It was 8 cm long 7 cm broad at its broadest point, and 21 cm in diameter. It hung



Figs 1 and 2 Pedicled implantation of the humangioma | Fig 3 | Result after removal of tumor

45 cm below the lower level of the jaw From in front it was approximately heart shaped, but when it was lifted up so that its posterior surface was brought to view it somewhat resembled a kidney, the line of its implantation on the lip corresponding to the hilus The skin over it was smooth and violet colored The tumor was painless and soft At its base and periphery it felt pasty and lobulated In the center it was harder. On pressure it became paler but could not be reduced

No other abnormalities were found. The patient was slightly emaciated but had a good appetite. She was in the fifth month of pregnancy She reported that about twenty two years ago, when she was splitting wood, a chip struck her upper lip Two weeks later the lip began to swell and a tumor developed. This was extirpated but re appeared after two years It had always increased during pregnancy and had decreased again after delivery During the last few months it had grown rapidly The patient's health had always been good

A clamp was applied on each side of the pedicle and the tumor extirpated under novocain adrenalin anæsthesia. After suturing of the skin and mucous membrane a collodion dressing was applied. Un eventful recovery resulted

On histological examination the neoplasm was found to be a cavernous hæmangioma with foci of purulent inflammation and advanced endarteritis and mesarteritis The fibers of the orbicularis muscle showed marked degeneration

Angiomata are regarded as congenital abnor malities due to a disturbance of the embryological development of the branchial arches They are found chiefly at the points where the fetal clefts close At these points there may be defects such as hare lip, or hyperplasias such as angiomata, or both Angiomata may remain latent for years and then develop without any apparent cause or after trauma AUDREY G MORGAN M D

CYE

key B W The Influence of Protein Therapy on the Experimental Staphylococcal Infection of the Rabbit's Cornea Am J Ophth , 1926, 3 8

Key states that the best form of foreign protein available for administration to man is antidiphtheria serum. The dosage of other preparations such as milk, normal horse serum, nolan, etc, and the reaction produced by them are uncertain dosage of the serum is more definite and its ana phylactic effects are better understood

A concentrated serum is less likely to cause serum sickness than whole serum because a smaller quan tity of the former is injected. The history of previous anaphylactic conditions such as diphtheria, status lymphaticus, asthma, or hay fever like attacks in persons proved susceptible in a stable and horse environment are well established as probably contra indications to serum injections

Key has not observed serious anaphylactic effects in any of the 170 cases treated to date. The doses have varied from 1,000 to 5,000 units

In the first six experiments performed by the

author with regard to the influence of protein therapy on staphylococcal infection of the rubbit's cornea an unmeasured dose of staphylococci was used for the moculation, but because of the very violent corneal reaction produced by the too con centrated emulsion of the micro organism, nothing as to dosage or differences in effect could be determined

In the next thirteen experiments it was recognized that if the minimal dilution of stuphylococci producing active ulceration of the corner could be determined, more accurate observations would be possible The determination of the virulence of the staphylococci for the corneal substance was at tempted by first growing the micro organism in the eye of an animal However, this calculation was

upset by the varying virulence of the different strains of staphylococci isolated from different parts of the body

In the last seven experiments a more accurate method of determining the virulence of the bacteria was devised the strains used being passed through the eye of three successive animals

From his experiments Key draw the following

conclusions

I Such an investigation as this is dependent for its accuracy primarily upon the method of inocula tion the determination of a fixed virus through passage and the suitable dilution of this virus

The method of injection the size of the dose and the relative value of different forms of protein should be worked out with some degree of certainty from the outline of procedure finally demonstrated

in these experiments

2 These experiments demon trate that very interesting and important question of virulence of different strains of staphylococci for corneal sub stance as evidenced by the unmistakably greater virulence of the staphylococci cultivated from the eve as compared with those cultivated from the throat Whether this is entirely a specific effect or a mere variation in ordinary virulence remains to be proved

4 In almost every experiment in which any difference could be noted the animal which received the protein injection showed the least corneal reaction to the infecting micro organism. However none of the experiments showed any important difference between the effect upon the infection of antidiphtheria serum concentrated horse serum and typhoid vaccine Sterile milk which was tried in twelve rabbits showed no effect whatever the corneal lesion being similar in every way to the corneal lesions in the control animals L L McCoy M D

EAR

Milligan Sir W Hæmorrhagic Types of Ear Disease Occurring During Epidemics of Influ Proc Roy Soc Med Lond 1026 xix Sect Otol

The toxemia produced by the influenza bacillus in the blood induces a marked vasomotor paresis upsets the balance of the heat center and as a rule produces intense congestion and a high tem perature

The author believes that the very severe headache is the result of an acute and rapid congestion of the pia arachnoid membranes with a concomitant increase in the cerebrospinal fluid and a consequent rise in the intracranial pressure. Lumbar puncture gives prompt relief from the headache and relieves the varying degrees of serous meningitis. It also materially checks the aberrations of the heat center since nothing predisposes more to high temperature than sudden and fluctuating increases in the intracranial tension

In the external auditory meatus the occurrence of an otitis hæmorrhagica is pathognomonic. In no other condition do we find the peculiar blood charged bulke present in influenza. These bulke are usually situated on the postero inferior meatal wall close to the annulus tympanicus or on the surface of the membrana tympani itself

In true otitis media hæmorrhagica the drum head is ordenatous and fiery red occasionally shows bullæ of a dark bluish color on its posterior segment and at times pulsates as a whole. The condition is invariably associated with intense suffering The congestion is much more acute and painful than that present in the usual types of middle ear catarrh and its destructive effects so far as the contents of the middle ear are concerned, are much more serious

Extension to the mastoid antrum is quite common With the exception of diabetic mastoiditis there is no inflammatory affection which produces such rapid destruction of bone as influenzal mastoiditis

The author is convinced that in many of these cases with objective signs of severe congestion there is at the same time an evanescent pia arachnitis He urges removal of the focus of infection and lumbar puncture The operation of choice is the Schwartze operation

Nerve deafness may often be attributed definitely and specifically to an attack of influenza pathology present is undoubtedly a hæmorrhagic effusion into the cochlea with resulting destruction of certain portions of the end-organ and toxic infection

of the auditory nerve itself

It is of the utmost importance to recognize the symptoms of an early serosangumous influenzal labyrinthitis and to treat it vigorously by local depletion lumbar puncture and the repeated subcutaneous injection of pilocarpine in order to promote absorption and thus relieve the increased intralabyrinthine tension so conducive to the pas sage of toxins through the point of least resistance of the auditory tract A R HOLLENDER M D

M Nally W J Experiments on the Saccus Endo lymphaticus in the Rabbit J Larragel & Olol 1925 th 349

In three series of experiments on rabbits the author studied the effect of incision of the median wall of the saccus endolymphaticus the application of pressure over it and cauterization. None of these procedures caused much disturbance of the vestib ular mechanism. The most constant result was a diminution of tonus of the homolateral limbs This sign appeared after several hours whereas rupture of the round window is followed by a diminution of tonus immediately. It was most constant following incision of the saccus. In the other experiments with a diminution of tonus it was impossible to say that the saccus had not been opened

The only other sign suggesting labyrinthine dis turbance was a horizontal deviation of the eyes to the side of the saccus operated upon The author concludes that the saccus is probably not directly concerned with the diminution of tonus which appears immediately after rupture of the round window

Manford R Waltz M D

Hempstead B E Six Cases of Definite Mastolditis in Which the Middle Ear Was Definitely Not Affected Ann Otol, Rhinol & Laryngol, 1926, XXX 517

Cases of mastoiditis without apparent involve ment of the middle ear are rare as compared with cases in which the middle ear is obviously affected

Infection in cases of mastoiditis usually comes from the nasophary in to way of the eustachian tube. If the aditis ad antrum is small, infected material will soon be sealed off no means of drain age being left for the infected cells whereas the in fected material in the middle ear may drain through the eustachian tube. Mastoiditis without apparent involvement of the middle ear should not be con fused with latent ottis media in the latter there is deafness and sometimes pain but no spontaneous discharge of pus. However, paricentesis is always followed by a discharge of pus.

Apparently fifty ught cases of mastoditis with out evident involvement of the middle ear have been reported in the literature, but the descriptions are brief and the data therefore uncertain and in conclusive. The author reports six cases from the Mavo Clinic. While the study of these cases does not permit definite conclusions it indicates the existence of an antecedent outlis media without symptoms. The roentigen ray examination is important Paracentesis is always negative. Predominance of the streptococcus mucosus is a danger sign in this type of infection, and when this organism is found in cases of acute otitis media with the drainage of pus, the otologist should be on guard.

Smyth D C A Skin Periosteal Flap for the Radical Mastoid Ann Otol Rhinol & Larringol, 1026 XXXV 442

The object of plastic operations on the external auditory canal after complete exenteration of the mastord is to prevent a structure of the external meatus and to utilize the posterior wall of the meatus for partial covering of the surface of the wound in the bone thereby adding another starting point for the epidermization of the uncovered granulating bony surface. As the posterior canal skin is usually so traumatized after a radical mastoid operation that the Kortner flap is practically useless, the author endeavors to improve the skin flap by implanting deep in the cavity a flap of live epithelium with a blood supply through its attached persosteum

The canal having been cleaned with iodine and alcohol an incision is made in the external auditory canal down through the periosteum along the superior canal wall to the promontory and along the inferior canal wall. The canal is then temporarily packed with gauze, the regular mastoid incision is made down to the periosteum but not through it,

and the subcutaneous tissues are dissected forward so that the posterior cartilaginous canal is brought into view. At the juncture of the cartilaginous and bony canal an incision is carried through to meet the original incisions. From these intersections incisions are carried backward through the perios teum over the mastoid to the edge of the posterior regular mastoid mission. With a submucous eleva tor, the periosteum of the mastoid over the mastoid is undermined a small buttonhole opening is made in the periosteum, and the periosteum is lifted off. The whole flags is their retracted backward.

When this technique is used, the flap is posterior to the field and is therefore not subject to trauma On completion of the operation the cartilaginous wall is split through the concha and catgut stitches run from its subcutaneous tissue to the posterior lip of the mastoid wound. These sutures hold the canal widely open. A skin graft is placed in the middle ear and the cavity filled with sterile vaseline Excessive granulations are removed by a Greenwald punch.

The author has never observed any sloughing of the periosteal flap. The advantages of the technique described are that the flap is prepared at the begin ning of the operation and placed out of the way, there is a dry unobstructed operative field, the flap is formed of absolutely intraumatived tissues the periosteum helps to diminish the size of the bowl, a skin graft is easily placed with accuracy in the middle ear and the time of operation is shortened

The article contains case reports and illustrations George R McAuliff, M D.

NOSE AND SINUSES

Mangabeira Albernaz P
Polyps of the Septum The Polyp of Leish
maniasis (Contributon à la pathogénie des polypes
du septum le polype de la leishmaniose)
**Arch
unternat de larying\(^1\) 1926 Xxii 139

This article does not deal with mucous polyps, the evistence of which on the septum has been denied by some rhinologists, but discusses the hard, almost sessile, fibrous polyps which may be found implanted on the vascular area of the septum in almost all granulomatous infections, tuber culosis, sphilis, rhinoscleroma, leprosy, and some times in chronic glanders.

The author reports three cases in which they were associated with leishmannasis. One patient was a 12 year old boy, another a man of 31 years, and another a woman of 34 years. The tumors were smooth and urregularly round and located on the septum between the tubercle and the inner border of the nostril. They were hard and fibrous pale rose in color, paniless, and sessile. They did not bleed but epistaxis sometimes occurred when the base was explored. They did not cause prunts or sensations of heat or cold. The author attributes them to an energetic local defense reaction and attenuation of the virus.

Tartar emetic is as specific for leishmaniasis as novarsenobenzol is for syphilis Often the picers heal after from four to eight intravenous injections This does not mean that the disease is cured but the patients often stop the treatment if they are not under control Sometimes a large number of injections is necessary to effect a cure. In very severe cases as many as 150 have been given

When the treatment is insufficient tartar resistance develops and it is in such cases that the polyps are formed The author never saw any cases of polyp while he was on the staff of the Otorhinolaryngological Clinic at Babia in which the treatments are followed up energetically three cases he reports he observed in a country practice and were cases in which the treatment had not been thorough AUDREY G MORCAN M.D.

Sargnon Radium in the Treatment of Tumors of the Nasopharynx (La radium thérapie dans le trattement des tumeurs du naso pharynx) Arch snternat de laryngol 1926 xxxii 38

The author classifies tumors of the nasopharynx into two groups the diffuse and the fibromatous Radium irradiation has not proved successful in the treatment of diffuse malignant tumors but in cases of true fibroma and malignant tumors with a fibrous appearance it has given very good results In the latter the author has abandoned surgical treatment entirely in favor of radium irradiation because at operation there is apt to be very severe hamorrhage which sometimes necessitates ligation of the external carotid total removal of the tumor is often extremely difficult the tampon which is necessary often causes ear disturbances and some times mastoiditis and there is danger of secondary hæmorrhage and recurrence. He uses radium with out any preliminary operation. As he has had only tubes and needles available he has been unable to employ emanations. At first he introduced needles by either the nasal or the buccal route but he found that those placed by the buccal route easily became displaced o that they burned the surrounding to sues and unless they were not very firmly fastened there was danger that they might be swallowed. He therefore now uses tubes entirely

After cocaming and adrenalizing the region he passes a fine sound through the nose and mouth and attaches a thread to the mouth end of it to serve as a conducting thread in each nostril. He then puts two tubes in tandem in a rubber sheath (preferably black) to exclude secondary irradiation and sheaths them with gold if possible for better filtration He then pulls them up to the region of the tumor so that one hes in the nasopharynx and the other in the posterior part of the nose. This generally causes some hæmorrhage but the bleeding can be stopped by an anterior tampon. The tampon may be removed the next day The tubes are generally left in for forty-eight hours. One application is enough He generally uses tubes of 100 or 50 microcuries As a rule no hamorrhage occurs when

the tubes are extracted as the radium has a homo static action

In one case of epithelioma of the fibromatous type he applied a collar of twenty tubes around the lower part of the face, but its action was too intense. causing a double perforation of the vault of the palate An external collar is not necessary in such cases When there is enlargement of the glands which is rare in tumors of the fibromatous type the glands should be removed surgically as the radium will have little effect upon them. In one case the author applied an external cervical collar around the region of an excised gland combining this with the internal use of radium tubes. The result was good but the end results are not yet known

The treatment described causes cessation of the hamorrhage and slow but progressive retrogression of the tumor Generally several months are required for the complete disappearance of the neonlasm The action of radium may continue for three months Its unfavorable effects if any appear late A pos sible unfavorable sequela is necrosis of the vault of the palate. In some cases the posterior part of the vomer is eliminated this giving rise to a more or less feeted suppuration. No other complications have

been observed

The author has previously reported twelve cases One of them was a case of fibroid tumor in a young girl This tumor disappeared and at the end of four years had not recurred. Three were cases of hamorrhagic fibroma in boys at puberty these boys has been cured for two years but has a large perforation of the vault of the palate Another who was treated during the war was benefited but has not been seen since. Of five patients treated for sarcoma of the fibromatous type, one who was apparently cured has not been seen since another was benefited, two others were apparently cured and one has remained cured since 1013 Of three cases of atypical epithelial tumor with a fibrous appearance all were cuted and one has remained cured for two years The details of five recent unreported cases are given. All were cured but the late results are not yet known

AUDREY G MORGAN M D

Chatellier H P and Darlaux A Stereorgent genography as a Method of Exploring the Cranial Sinuses (La stéréo radio raphie moyen d exploration des sinus du crane) Arch internat de larzngol 1926 xxxii 9

The head is the most difficult part of the skeleton to examine roentgenologically because of its thick ness and complexity The multitude of planes of different depths superimposed on the single plane of the film produce a confusing picture in which nothing can be distinguished clearly. The stereo roentgenogram detaches these planes from each other and brings them out with a rehef which gives the observer the impression that he is looking through a cramum of glass The different planes are shown in their proper relation to each other

It is very easy to take the pictures The head is firmly fixed in position and the normal ray directed on the center of the region to be photographed, for the postero antero incidence, for example, it is directed on the midline 2 cm below the external occipital protuberance. The tube is fixed at the desired height, from 7,5 to 80 cm above the film case. For the first photograph it is moved from 33/4 to 4 cm to the right and then back to the center For the second it is moved the same distance to the left. The two films are superimposed by means of a stereoscope.

Any operation on the posterior sinuses should be preceded by a roentgen examination in order that the operator may have an exact knowledge of the anatomy of the region As an examination by ordinary roentgenography requires at least four plates—one from the base, one in profile an intrabuccal plate, and an oblique plate—the necessity of taking two films for the stereoscopic picture is not a serious

disadvantage

Ordinarily the maxillary sinuses can be examined quite well by the usual methods but the authors have found on stereoscopic roentgenograms taken from in front that an opacity which appeared in an ordinary roentgenogram to be in the sinus was in reality much further back on the lateral mass of the atlas. In another case an apparent sinus shadow was found to be caused by a large dental cyst the convexity of which projected far into the sinus.

The stereoroentgenogram has decided advantages in the examination of the frontal sinuses. In an ordinary roentgenogram it is difficult if not im possible, to see the interorbital part of the sinus As the frontal sinuses the ethmoid cells and the sphenoid sinuses are on almost the same horizontal plane, their shadows are superimposed Sometimes the clinoid processes and the tip of the petrous pyramid may confuse the shadow if the head is not held absolutely straight, and the shadow of the interfrontal septum is easily confused with the shadows of other vertical lines of bone. It is occasionally impossible to distinguish the upper part of it from the frontal crest and the lower part of it from the top of the nasal septum, the crista galli, and the intersphenoid septum. A vertex chin incidence is better even in ordinary roent, enography than an anteroposterior incidence but even in the former the floor of the sinus is presented obliquely to the rays, this resulting in distortion and lack of pre cision The only method of examination that over comes these difficulties consists in taking two stereoroentgenograms, one anteroposterior and one vertex chin

Stereoroentgenography is of great value also in the study of the ethmoid and sphenoid sinuses. It is the only method which brings them out from each other and shows the succeeding planes in their proper perspective. While the stereoroent genogram will not reveal the individual ethmoid cells, one behind the other, it will clearly demonstrate lesions of the ethmoid cells as distinct from

lesions of the frontal or sphenoid sinuses. In the examination of the sphenoid sinuses the films may be reversed and looked at from behind. There will then be nothing in front of the sinus but the plate of the occipital bone and the basilar process, the pictures of which are very simple and not at all confusing. The streoroentgenographic method is to be recommended particularly for the examination of the sinuses.

Audrieu G Morgan M D

Reverchon and Tsiros An Ethimofrontal Mucocele with Extensive Invasion of the Orbit (Mucocele fronto ethimoidale avec large envalusement de lorbite) Arch internat de laryngol 19 6 xxxii 165

Ethmofrontal mucocele develops slowly and generally pushes the contents of the orbit outward without injuring them. It is unusual for it to reach such a size that the eyeball is injured and vision is impaired.

The case reported in this article was that of a man at years old. Two years before the patient consulted the authors he felt a small tumor at the upper inner angle of the left orbit. This grew slowly for a while, but for about eight months it had caused progressive impairment of vision. Examination revealed lines and dots of outcity in the crystalline lens. There

was no pain

The lachrymal bone was pushed forward by a soft tumor which seemed to originate in the floor of the orbit, descend into the frontonasal canal, and extend backward and involve the lateral wall of the orbit. The tumor projecting into the orbit from the fronto-orbital angle was the size of a large nut. A ray examination showed opacity of all of the left fronto-orbital region which partially masked the details of its structure, but the left frontal sinus could be seen. The latter appeared distended it was impossible to say whether the condition was an ethmofrontal nucocele or a malignant tumor of the ethmoid.

At operation an incision was made over the frontal sinus and around the upper and inner border of the orbit. In the floor of the frontal sinus there was a large breach from which flowed a mucopurulent fluid. The fluid was aspirated with a pipette to prevent soiling of the field of operation. No bacteria could be found in it. The walls of the sinus showed no trace of osteria but were covered with a mucous membrane thicker than that of a normal sinus. The whole sac luning the sinus was shelled out like a paradental cyst of the upper maxiliary. There were quite firm adhesions along the floor and around the breach in the bone. The eyeball was restored to its normal position and the wound sutured in two layers.

The eye regamed its normal movements very quickly A month after the operation the signs of congestion had disappeared but the opacities of the lens remained Vision improved but remained less than a/10 Histological examination of the membrane showed a connective tissue layer lined

with ciliated epithelium

In this case there wa a slow period of growth of the cyst followed by rapid growth. It seems that the infection caused the latent cystic tumor to enlarge rupture the bone and invade the orbit Trophic disturbances of the anterior segment of the cyp primarily anasthesia of the cornea are common in philegmons of the eyeball but the authors believe they are unusual in cases like such as this in which the cyball is only compressed and not diseased. Total removal of the membrane is the well as of paradental cysts. In the case reported it did not seem necessary to establish nasal drainage Infected mucocele is to be considered a cyst analogous to a paradental cyst rather than a sinsustic

AUDREY G MORGAN M D

MOUTH

Campbell A The Closure of Congenital Clefts of the Hard Palate Brit J Surg 1926 till 715

Campbell has devised a method of closing defects of the hard palate by using the nasal septum. The tissue of the nasal septum is very vascular and heals

well under adverse conditions

The first step in the operation which consists in
the formation of the palatal flap involves the reflection of a flap from the buccal surface of the palate
tion the same side as the cleft with its base on the
lateral margin of the cleft. The width of this flap
is approximately, a little greater than that of the

The uncision is made parallel with the cleft mar gin and goes down to the bone. It extends as far as the posterior border of the hard palate and the ends of the incision are then ioned to the margin of the cleft. The mucopernosteum is reflected medially as far as the margin of the gap in the bone and the hinged flap this formed is turned upward so that it comes to lie with its medial edge in apposition with the lower edge of the septum and its raw sur

face toward the mouth The second step consists in the formation of the nasal flap. This is done by measuring the distance between the lower border of the septum and the unreflected or lateral edge of the palatal incision If for example the is a cm posteriorly at the juncture of the soft and hard palates a mark is placed on the nasal septum about 2 5 cm vertically above its lower border. If the gap narrows anteriorly to o 5 cm a mark is made above on the septum 1 2 cm from the lower border A line of incision is thus outlined Then with a rectangular knife a horizon tal incision is made from behind forward along the line cutting through the mucoperichondrium as far as but not into the cartilage of the sentum The anterior and posterior ends of this incision are then joined to the lower border of the septum With an elevator the mucoperichondrium is turned down so that it hangs like a curtain in the mouth. This nasal flap has its base at the medial margin of the cleft its raw surface toward the nose and its lateral

edge in approximation with the lateral edge of the

In the third step one or two sutures are introduced to unite the upper and lover flaps at the base of the septial flap i necessary and the lateral edge of the nasal flap is sutured to the line of the palatal incision with three or four sutures. This completes the operation.

[AMES C BASANELL M D

PHARYNX

Baum H L The Radical Cure of Peritonsillar
Abscess Ann Otol Rhinol & Laryngol 1926

The treatment of peritonsillar abscess is disappointing especially in the early stige. Because of the intenes suffering and the danger of serious and often fatal complications it is exceedingly desirable to give relief as early as possible rather than to wait until incision and evacuation are considered

feasible
The author has obtained most satisfactory results from tonsillectom. In what he calls the second stage of the condition the gland is pushed toward the midine but as yet there is no suprationsillar building. As the ordinary methods of approach will not evaruate the pus at this time tonsillectomy is most applicable. Baum performs it under ether anaxishesia and removes the normal tonsil at the same time.

This method evacuates the pus and provides massive drainage of the infected area with immediate relief George R McAllier M D

NECK

Graham A The Thyroid Gland in Relation to

Graham discusses the effect upon the thyroid of surgical removal \ ray and radium irradiation

and iodine treatment

Surgeons are confronted with the question of how much gland to remove If too little is removed the clinical results are not satisfactory whereas if too much is removed myxeedema may develop Prior to the administration of iodine as a preliminary to operation it was the rule to remove from three fourths to seven eighths of the gland The removal of so much tissue from patients treated with jodine may increase the postoperative incidence of abnor mally low hasal metabolic rates with or without clinical manifestations of myxcedema Craham believes there is a definite use for iodine after operation to prevent regeneration hyperplasia in glands that had not undergone complete involution before operation

With regard to the effect upon the thyroid of roengten ray and radium irradiation the author states that our knowledge is still too incomplete to warrant definite conclusions. Clinical and experimental evidence indicates that irradiation produces adhesions between the thyroid and the surrounding structures, fibrosis of varying degree, and a decrease in the vascularity and volume of the thyroid. It is doubtful, however, whether on an anatomical basis, these changes can be distinguished from changes of a similar nature and equal degree in thyroids that have not been irradiated. With regard to the effects of irradiation upon the function of the thyroid very little is known.

The implantation of radium produces localized necrosis followed by fibrosis, changes quite similar to those produced by the injection of boiling water, alcohol, quining and urea todine, carbolic acid, etc.

Iodine is being extensively used as a therapeutic agent without proper appreciation of its indications and contra indications. The indications and contra indications are derived from the state of the thyroid itself.

The clinical response of patients with typical exophthalmic goter and typical toxic adenoma to the
administration of iodine is identical varying only
in degree, and depends upon the patient's age and
condition, the duration and intensity of the disease
the state of the thyroid at the time, the quantity of
iodine given, and whether or not the patient took
oldine previously

STANIEY J SEECER MID

Crile G W The Surgical Treatment of Goiter Radiology 1926 vi 365

Crile says that as there has been so much uncer tainty regarding the cause and specific nature of the syndrome designated as "hyperthyroidism" it is not surprising that various methods of treatment have been suggested for it However, of the definite methods which have been proposed, the only ones which merit serious consideration are the rest cure, radiation and surgery.

Ever since the discovery of the therapeutic value of the \ ray the possibility of applying the ray to the treatment of hyperthyroidism has been under discussion

Means and Aub claim that in cases of equal toxic try the chance for the cure of evophthalmic goiter is as good in roentgen ray treatment as in surgery and that, this being true, the former method is preferable to the latter as it is associated with less danger of a fatal outcome, it produces no scar, it does not interfere with the patient s occupation, it is painless, and it causes the patient very little inconvenence

Against these claims, Crile states that under the plan of management employed by him almost no case of hyperthyroidism is too severe for surgical treatment

In a series of 748 thytoidectomies for hyper thyroidism performed during a period of six months beginning June 1 1925, the mortality was only 0 82 per cent and among 398 ligations it was only 0 76 per cent. When the site of the incision is care fully chosen, the resultant scar is so slight that within a few weeks it is practically invisible. The one or two brief stays in the hospital necessistated by surgical treatment do not inconvenience the patient more than the repeated visits to the hospital necessary for

treatment with the X ray. In reply to the argument that X ray treatment does not interfere with the patient's occupation, Crile says that in acute hyper thy roudsm't should be interfered with, whatever treatment is used. He calls attention also to the fact that operation is the only procedure by which the amount of diminiution of the Jand can be accurately controlled. The argument of the radiologist that surgery can be employed later if the X ray does not effect a cure is not a good one because radiation increases the difficulties of operation and during the period that the X ray is being tried the disease causes additional damage

In conclusion Crile states that the success of radiation as well as of surgery depends not only upon the method employed but also upon the management of the patient over a period of time the length of which depends upon the type of the disease in his perthy rodism the management of the patient over a prolonged period is of particular importance the operation constitutes only one stage in the treatment STANLEY J SELGER M D

Ladwig, A Follow Up of Patients Operated upon for Basedow s Disease (Nachuntersuchungen an Basedow-operierten) Arch f klin Chir 1925 CXXVII 367

This article is a report on 150 of 150 cases of Basedows disease which were operated upon in the period from 1512 to 1524. The author differentiates between the classical Basedow's disease (with the Merseburg triad, tachy cardia, goiter and evophthalmos) and thyrotoricosis. The latter condition resembles the classical Basedow's disease clinically, but lacks the most pathognomonic sign of the latter, namely exophthalmos.

The treatment of choice is bilateral wedge resection preceded by ligation of all four large arteries or if the remaining portion of the gland will not be functionally sufficient, of only three. In especially severe cases with marked involvement of the heart, the operation should be performed in two stages first ligation of both superior thyroid arteries or of only one, and then after improvement of the general condition—usually one or two months later—bilateral resection

In the ward cases of Basedow's disease which are reviewed the postoperative mortality was 65 per cent while in the ward cases of thyrotoxicosis it was 11 per cent. In cases seen by the author in private practice, the corresponding percentages were 2 and 66

A satisfactory explanation for the true Basedow death has not yet been found. The typical picture is that of an increased pulse rate increased anuety, and frequently a considerable rise in the temperature. This was sometimes observed even after ligation operations.

The pre operative care is of the preatest importance for a favorable result. In the author's cases the patient is given bed rest for eight days. The operation is performed under scopolamine morbline.

anæsthesia supplemented with local novocain or tutocaine anæsthesia

Good results, by which is meant freedom from severe nervous disturbance and the return of the ability to work (complete disappearance of all symptoms was rarely observed) were obtained in seventy two (692 per cent) of roc cases of the classical Basedows disease and in twenty four (683 per cent) of thirty five cases of thyrotoxicosis Half of these were permanent results. Cases in which the neuropathic element is particularly dominant are more difficult to influence than the others even by operation

The author attaches great value to postoperative treatment by physical and mental rest hydro therapy climatic influences and psychotherapy

Psychotherapy is particularly important

The blood picture is not influenced by the operation In the majority of cases, lymphocytosis eosinophila etc. were found after operation asnell as before it and were as common in the cases in which good results were obtained as in those with poor results. The blood picture in Basedows disease is a sign of constitutional degen eration which is not affected by the operation

SIMON (Z)

Boattini G Thyroid Grafts (Linnesto tiroideo)

Arch stal di Chir 1026 X 1

The author performed several senses of expennents in grafting thyroid tissue. He grafted homo plastic and autoplastic thyroid not rabbits which had been partially thyroidectomized and also included those which had been subjected to complete thy roidectom. He found that the grafts did not take in the animals that had been partially thyroidec tomized but did take in those in which the whole thyroid had been removed.

If it seems that the graft requires a functional it seems that the graft requires a functional to the second of the body is all standards and to function the survive and it the body is all the second of the graft it is absorbed. Ho ever his tological examination of the graft is a bostbed. Ho ever his tological examination of the graft is a shorted the persistence of total thyrodectomy after periods of as long as one hundred twenty five days showed the persistence of normal thyroid tassue with signs of hyperfunction which is indicated not so much by a large amount of colloid as by its fluid character. The colloid is less visced and does not strain so intensely as colloid in a gland that is not functioning excessively and the cells are higher and often cylindrical.

The thyroid tissue to be grafted should be fresh and will take better it it is divided into small pieces. The best bed for it is the subcutaneous tissue of the abdominal wall as this has a copious blood supply and exerts no tove action on the graft. The author believes that homoplastic thyroid grafts are capable of taking and functioning for an indefinite time, and that further experimentation along this hie will be of creat value in treatment.

Audrey G Morgan M D

Thomson Sir St C Tuberculosis of the Latynt Treatment with the Galvanocautery Indica tions Results Technique Lancel 1926 ccs, 1084

The author never gives galvanocautery treat ment in a case of laringeal tuberculosis until sufficient time has elapsed to show the progress that will be made under sanatonum care and voice rest

The results of galvanocautery treatment are not accorded when the disease is situated on the vocal cords the vocal processes, and the interary tenod region and is in a quiescent state. This treatment is indicated also when the tuberculous deposit is limited to a ventricular band or arverpiglottic fold and is of an indolent type. When the epiglotts is invaded it may be employed only when the condition is chronic or of the lupond form

It is contra indicated in acute cases with a turban shaped epiglottis, and particularly during the evolutionary period. It is dangerous if the arytenoids are acutely in aded with a massive deposit or show a pseudo edema and when the mobility of the cord

is impaired and there is pain

The patient's general condition must always be taken into consideration. The operation should not be undertaken in the case of a patient whose general

condition is rapidly deteriorating

Of 3 542 lary ngeal cases seen in a sanatorium during the last fourteen years 17 50 per cent were cases of laryngeal tuberculosis, and of the latteronly 166 ip per cent were regarded as suitable for galvanocautery treatment. In the first ten years a cure was obtained in 65 per cent of the cases but in the lat tour years it has resulted in nearly 69 per cent.

The author describes the indirect method of laryngostomy and the technique of the use of the galvanocautery under local anasthesia. Redundant granulations are an occasional sequela. In two cases a troublesome stenosis developed but tracheotomy was done with a favorable result.

J FRANK DOUGHTY M D

Woodburn J J Enchondromata of the Larynx Med J Australia 1926 1 645

Enchondromata of the larynx are rare. A search of the literature revealed only sixty two such cases and in some of them the diagnosis was doubtful because a microscopic examination was not made.

The author reports the case of a patient 66 years of age who had had hoarness for five years and dysphaga for a year and recently dysphaga and a loss of weight. External exturnation showed a bard swelling on the right side of the neck, extending down to the clavicle. The larvingscope revealed a large round swelling which filled more than half of the hypophary no on the right side and had the right cord. The right cord was fixed. The growth modeled the right arytenod cartilage.

At operation a drep dissection was done on the right side of the neck and an opening made into the lower portion of the pharynx. The cricoid cartilage the right wing and the lower third of the left wing of the thyroid cartilage were removed Death occurred five days later from bronchial pneumonia. The diagnosis of enchondroma was based on the findings of microscopic examination George R. McQuippe, M D

New, G B Surgical Diathermy in Laryngology Arch Otolaryngol, 1926, 111, 301

In the treatment of new growths or benign lesions in the nose and throat, surgical diathermy is a valuable addition to the well known methods of treatment for local lesions. The selection of the best form of treatment for the various types of lesions, variously situated, is of the greatest importance, particularly in the case of malignant lesions. For the latter a combination of methods may give the best results.

Diathermy is of advantage over the other forms of cauterization because (1) It is not necessary to protect the tissues around the area treated (2) There is no bleeding during the operative procedures (3) The active electrode is easily carried into the nose pharynx, or larynx, without burning any areas except those treated (4) Local anæsthesia with gas may be employed if necessary (5) Sterilization is effected by heat brought from the depth of the tissue, the wounds being therefore cleaner

Objections to it are the fact that the destruction, which varies according to the size of the patient and the size of the electrodes, is much greater than appears at the time of the operation, and there is danger of secondary himmorphage. It is questionable, however, whether secondary himmorphage is any more likely to occur with this than with other types of cauterization.

Diathermy seems to be particularly adapted to angiomata in adults Formerly radium was buried in the tissue In the cases of infants, radium is very satisfactory, but in those of adults its action is very slow and unsatisfactory. To destroy benign and malignant lesions in the nose, an electrode with a small point may be carried directly to the site of the lesions without burning other tissue, as in the control of bleeding of the septum or the destruction of small polyps of the nose. Diathermy is more satisfactory for the destruction of synechia of the septum than the use of the actual cautery as it causes less reaction.

For papillomata of the larynx both in adults and in children, the results so far have generally been satisfactory. In the treatment of malignant tumors about the nose, sinuses, and jaws, diathermy has almost entirely replaced the other forms of cauter ization, or is combined with radium. In cases of low grade malignancy, diathermy is the usual treatment, while in cases of more active epitheloma and lym phosarcoma, radium is usually depended upon to destroy the growth. The same is true of the pharyngeal lesions, radium being employed for the more active epithelomata and sarcomata, and diathermy for some of the low grade lesions.

For malignant tumors of the larynx the author prefers thyrotomy and excision, and lary negetomy While thyrotomy and destruction of a small lesion with diathermy should give a satisfactory result, cases have been reported in which cartilage was destroyed and other untoward results have followed

Diathermy has an important place in the treat ment of many lesions about the nose, throat, and mouth It may prove to be the best means of treating papilloma of the larynx in adults and possibly also in children

Any one measure should not be emphasized to the exclusion of others until experience has proved its value

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Revel Barbezier and De Martel A Case of Otic Abscess of the Cerebellum (Note au sujet dun cas dabscès du cervelet dorigine otique) Bull et min Soc noi de chir 1926 in 95

A man 37 cars of age was admitted to the hospital February 4 1038 with paralysis of the left side of the face and otorrhoa. The condition of torpor or hebridde suggested a serious intracrantal complication. Enlargement of the spontaneous perforation of the trimpanum by the otologist caused an interior in the discharge from the ear and some improvement in the temperature and pulse but no improvement in the general condition. The torpor increased and the pulse rate decreased to 52. Operation was then proposed but refused.

On February 20 the patient complained of violent occipital headache and disturbance of balance. He was able to stand only by spreading his feet apart Romberg's sign was absent. Hypermetria was present on the left side and there was spontaneous nystaemus. The ocular reflexes were normal and

the pupils were equal. There was no papillacdema. The pulse rose to 70 toming then began the torpor uncreased and adadolokiness developed There was more marked ballottement of the left hand than of the right. The diagnosis was chronic mastoditis complicated by facial paralysis, exchlear and vestibular lab runthints and probably cerebellar adocess. On March a the mastod was opened. The capacite of the lab runth pass and tangestic Theorem and the capacite of the lab runth pass and tangestic Theorem and the capacite of the capacite of the capacite of the capacite for the capacite of the capacite for the capacite and the capacite of the capacite for the capacite for the capacite of the capacite for the capacite of the capacite for the capacite of the capacite of the capacite for th

After the operation the patient's condition in proved very little. A neurological examination made July 6 showed even more marked symptoms of cerebellar abscess. At another exploration done March 7 another abscess was discovered and evez uated. The torpor increased however and the patient died March 10 Death was due to the delay of surgical treatment the patient having refused operation for some time and to the fact that at the first operation only one of two abscesses was found

The authors have studied the reports of seventeen cases of cerebellar absects collected from the literature. In eleven the abscess followed chrome tourhors and in six was due to acute or tecent otorrhora. In their own case the ear disease was of two months duration. In fourteen of the cases reported in the literature the abscess was solitary in two there were two abscesses and in one there were three. In four cases the infection of the cere three In four cases the infection of the cere

bellum occurred by metastasis and in five there was a labyrinthitis or an osteritis of the internal cortex. In the authors case the infection must have been carried by the blood or through the perilymph spaces of the nerve trunks as the tissues adjacent to the cerebellum were intact

The symptoms described in most of the cale reports are not the focal ones but those due to in tra-cramal pressure viz headache somnolence or coma which are present in the majority of the cases and vomiting which occurs in 50 per cent When papillerdema is looked for it also is found in about half Bradycardia was mentioned in only a fourth of the case reports studied and cerebellar symptoms in only twelve Adiadokokinesis hypermetria and difficulty in passive movements are mentioned in eight. There was lateropulsion on the side of the lesion or the opposite side in four cases and spon taneous deviation of the index finger in the same number The cerebrospinal fluid was rarely exam med although the authors believe the polynucleosis found in their case is an important sign Com pression of the homolateral pyramidal tract with its sequelæ Babinski's sign epileptoid tremor, and exaggeration of the reflexes is mentioned in only three case reports Pressure on neighboring nerves was rarely described but in one case there was paresis of the fifth seventh and eleventh pairs and in the authors case the fifth seventh and eighth pairs were affected

The prognosses unfavorable In the seventeen cases reported in the literature there were nine deaths. The high mortality is due to the fact that the abscesses are frequently multiple and only one is found.

In the discussion of this seport. Curvac called attention to the fact that the authors fauld discussion attention to the fact that the authors fauld discussion whether the cerebellum was entered inside of our whether the cerebellum was entered inside of our side of the vertical portion of the lateral issues. If stated that abscesses of out ongin are generally approached from inside the same and the believes that this is the best route. If the symptoms per sait a second operation is indicated. Unce explores of this kind has been approached from inside the sums and re-operation is indicated. Given explores outside the sinusar three-operations is indicated. Our oetplores outside the sinus at the second operation. He believes that Lemaitres method of using a tightly fitting drain for the meninges has been generally accepted.

Lampe W The Efficacy of the Substance of the Posterior Lobe of the Human Hypophysis (Ueber die Wirksamkeit der Hinterlappensub stanz der menschichen Hypophyse) Wien klin Wehnsche 1926 Krut 23

Several years ago Trendelenburg and Bergmann found in the posterior lobe of a human hypophysis a substance just as efficacious as the corresponding substance obtained from cattle Previously, Maresch and Pick had demonstrated the hormone in the human hypophysis. In 1923, Smith and McClosky described a method of maling a dry preparation of the organ which can be kept for years and accurately titrated. Dry preparations were made by the author according to this method from twenty human glands

Immediately after their removal from the body, the glands were carefully split sagitially so that the borders of the anterior portion and the medial portion could be easily seen. The two parts were then a compared and the isolated posterior lobes placed in a 3 c cm glass and covered with acctone. An hour later the acctone preparation was cut into small pieces and placed on ice, where it was kept over might. Early the next morting the acctione was removed and the container placed in a direr for twenty four hours at a temperature of 37 degrees C

After three days the preparation was placed in a bag of hardened filter paper and extracted for three hours in a Soxhlet apparatus with 50 c cm of acetone. The mass was then rubbed up to a fine powder in an agate mortar, placed in a drier for twenty four hours, and tested. For the tests, I mgm of the substance was rubbed up with I c cm of a o 25 per cent solution of acetic acid, boiled, and filtered.

The effect of this extract on the blood pressure was determined by experiments on decerebrate cats (threshold value from 10 to 15 mm Hg) and its antiduretic effect was determined on dogs with vesical fistulae (threshold value the dose which reduced the amount of urine from 20 to 25 per cent 200 minutes after the administration of 250 c cm of water) and on a Trendelenburg uterine preparation

The active principle is very resistant to external influences. In the human hypophysis it is demon strable in various amounts. It has the well known characteristics of the preparations made from an mals.

Bix (G)

Lund R Considerations on the Surgical Treat ment of Tumors of the Hypophysis Acta chirurg Scand 1926 hx 491

Lund reports four cases in which an operation was performed on the pituitary gland according to von Eiselsberg's modification of Schloffer's method and two in which it was performed according to the Hirsch method In the first three cases there was a tumor which on microscopic examination was found to be adenoma In one of these cases the result was good, but in the two others there was only temporary improvement in the patient's condition and death occurred six months and three years later respec In the fourth case, in which the condition could scarcely be called a pituitary tumor death occurred immediately after the operation. In the fifth case there was acromegaly with symptoms which, like those in the other cases, showed that the tumor had spread far over the border of the sella turcica Operation revealed a cyst filling the entire sella which was enlarged. The cyst was drained The patient died later of uræmia. On section, the remains of the tumor (an adenoma having its origin in the anterior lobe of the pituitary gland) were found extending far up into the cerebrum. In the sixth case operation revealed no tumor in the sella but after treatment with radium caused improve ment.

Tollowing these case reports the author discusses the various transcranal and transphenoidal methods of operation. He describes the Hirsch operation in detail. Autopsy and roentgen investigations have shown that, instead of being thick and massive, the part of the clivus blumenbachi which adjoins the sella is often only a millimeter thick, and that there fore probing toward the sella may be associated with the danger of penetrating to the poins cerebri.

In conclusion the author discusses various diagnostic factors of importance with regard to the location and extent of a tumor. Marked involvement of the optic nerves is a sign that the tumor has spread upward far beyond the limit of the sella. Choked disk is rare, but was found in the author's third case. In the case of acromegally the tumor had begun in side the sella. Such cases and the chromophobe tumors of the anterior lobe of the pituitary body should always be operated upon by the trans phenoidal route. Tumors of the prachypophyseal duct should always be operated upon transcramally and cases of adiposogenital dystrophy should usually be operated upon in this manner.

The sella furcica may seem to be of normal size in the roentgen pictures, especially in cases of tumors of the prahy pophyseal duct, and it may be greatly enlarged in the absence of a cerebral tumor (hydrocephalus) and in cases of cerebral tumors not related to the pituitary gland. When the cere brospinal fluid is not normal (plecotiess) a transcranial operation is contra indicated because the increase in the cells may be a sign of a connection through the floor of the sella between the meninges and the pharynx, in which case there would be considerable danger of meningitis associated with that type of operation

Hammes E M Spontaneous Meningeal Hæmor rhage With a Report of Seven Cases Minnesota Med 1926 ix 305

Of the three types of intracramal hamorrhage viz that due to apoplexy within the brain substance the traumatic type resulting in an extra dural clot, and the subarachnoid bleeding resulting from trauma or some other cause, the author discusses the last named

Besides trauma, he gives as etiological factors arteriosclerosis, acute bacterial infections (hæmor rhagic type) siphilis and chronic alcoholism. In some cases the bleeding comes from the rupture of small aneurisms due to arteriosclerotic changes or congenital defects in the media of the blood vessel walls. According to Goldflam, there is a true diapedesis in these cases.

In fractures of the vertebra with anjury to the cord myelography has great possibilities. Its find nags may be decisive when the indications for operation are not clear. It is of value also first recognition of so called late injuries of the cord following fracture of the spine such as pocket formation and fibross of the meninges.

In the technique used by the author 40 per cent rodgin is injected into the esterna cerebellomedul laris. The maximum dose is 2 c cm. The first puncture must penetrite the membrane. If other punctures are mide the odipin may escape from them into the muscles of the neck. The roentgin picture should be taken immediately after the in jection and with the prittent in a moderately oblique.

Signs of arritation are noted in about 50 ptr cent of the cases but no derths from the procedure have been reported. The absorption of the oil requires two years or longer. The possibility of injury depends upon the dose as was dimonstrated experimentally by kirs, and Peiper. Nonne proved that in the dose usually aren iodqi in is not danger.

ous to the human spinal cord

Myelography is to be regarded as a strictly surgical procedure and hould be performed only bythose who are experienced in the work and on the most denute indications

The article contons a number of excellent sketches and roentgen pictures PLRISTEIN (Z)

PERIPHERAL NERVES

Sergent E Baumgartner R and Bordet F
Eight Cases of Phrenicectomy (A propos de huit
ca de phrénicectom e) bull et riem voe méd d
hôp de par 1916 vlu 20

Alexander has reported 240 cs is of phremicectomy without a senious accident 1 e whe reported one death on the day after operatin n m a case of uniterial caseous pulmonary tuberculosis font verified by autopsyl in which after functional amelioriton pneumothorax with mediastinal emphysema developed and another death due to 150 physical which occurred on the operating table in a case in which phremicectomy was done as an adjunct to which phremicectomy was done as an adjunct to showed insulation of the three physical state of the composite that the composite th

The cicatural processes of true curative valuenot the functional amelioration which fix nesults from simple immobilization of half of the disphagan—may not occur until after from six to eight months. Hence failure of the operation must not be assumed to soon expecially when the lesions are extensive old and complicated by phrenocostal adhesions in general the time required for recovery parallels the rate at which the disphragm becomes elevated The authors have never seen true and definite in provement without a marked rue of the parlyzed half of the duphragm. The earlier the three of the more marked the rue the greater the three of healing. An clevation of the duphragm of the z cm has practically no effect upon the two rue z may be any and the control of the control of the some cases the ascent may be early and progression but in others it may not occur until late and may not make marked progress until after man monthy

There is a chance of benefit as long as the most of the disphringm is not completely arrested but a delay in its rise not only relards but may destrop the effect desired as it permits extension or complications of the discusse especially in pulmonary tuberculous and certain bronchiectases and suppurations of the base of the lung. The favorable effect of displacements of the base of the lung.

etention

The best indication for phrenicectoms in tuber culosis is a pleuropulmonary lesion limited to the base of the lung. According to some statistics the operation is best performed as an adjunct to presi motherax or thoracoplasty but recently it has been performed independently of other procedures In bronchiectasis limited to the base of the lung it may lead to recovery unless the lower lobes have been rendered stony hard by the disease. The authors believe that phrenicectomy is one of the first sur escal procedures to be tried in unilateral bronchi ectasis or abscess of the lower lobe. In such cases it is especially valuable as an adjunct to thoracoplasty or pneumothorax Diaphragmatic hemiplegia di minishes the danger of rupture to which a simple pneumothorax exposes an intrapulmonar, suppu rative collection. Rist believes that the ideal treat ment for bronchiectasis is artificial pneumothorax and that phrenicectomy should be limited to cases in which total or partial pleural union renders artificial pneumothorax impossible

The authors have performed phremeetomy in two cases of pulmonry tuberculosis four of broach ectasis and three of feeting pulmonary suppuration I rom the results they conclude that it is a relatively harmless procedure the effect of which vanes according to the nature and extent of the lessons

WALTER C. BUREET MD

SYMPATHETIC NERVES

Jonnesco T and Ionescu D Experimental and Clinical Investigations of the Functional Condition of the Heart and Blood Vessel Following Entirpration of the Certicothomack Sympathetic Chain (Experimentale and Lineary Company of the Co

Experimental studies on dogs and human beings have shown that the accelerator nerves are not necessary for life. In patients subjected to rise tion of these nerves some time ago the authors found that the variation in pulse frequency and blood pressure was within the normal limits.

Disturbances of rhythm were not observed. Functional tests of the heart by means of graduated exercises gave good results in those recently operated upon and those operated upon some time previously. In patients sympathectomized for angina pectors, the pulse returned to its original rate within two minutes Exclusion of the coronary constrictor and other pressor reflexes is followed by improvement in the myocardial circulation

Roentgenological studies showed that Jonnesco s operation has no influence on the shape or the va

rious diameters of the heart

Experiments on dogs demonstrated that the removal of both stellate ganglia does not influence the various waves of the electrocardiogram. In clinical cases no increase in the conduction time was found even when bilateral sympathectomy had been done. In the authors' opinion, this fact

indicates that, in the absence of the accelerators the vag do not develop a negative dromotropic effect. Following the intravenous injection of o or mgm of adrenalm in the cases of bilateralls sympathectomized patients there was an increase in the pulse rate and blood pressure. This observation shows that, in the absence of the accelerators, the heart reacts to adrenalm as it does under normal conditions.

After bilateral section and subsequent degeneration of the sympathetic nerve endings, ergotamin in small doses caused a slowing of the pulse and a drop

in blood pressure

In conclusion the authors state that cervico thoracic sympathectomy is not a palliative but a curative operation as it causes the cessation of the attacks by removing all efferent pathways

RIEDER (Z)

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Warren S L. The Bacterial Flora of Cancer of the Breast Am J M Sc 1026 class 813

Warren cultured micrococci and diphtheroids from cancer tissue obtained from seven human breasts without obvious areas of infection. The same organisms were present also in a breast affected with chronic mastitis and in parts of a breast not involved by cancer Warren concludes that these organisms are casual inhabitants of the breast structures and play no direct part in the production of cancer of the breast From a review of the literature he con cludes that Nuzum's micrococcus which seems to be the same as the one he describes has been ob tained at different times in the past but has been given different names I FRANK DOUGHTY M D

Pfabler G E and Widmann B P The Relative Value of Various Techniques in the Radiation Treatment of Carcinoma of the Breast as Reflected in the Statistical Analysis of 701 Private Cases with Observations as to the General Value of Radiation Radiology 1926 VI 403

During the past twenty five years Pfahler's technique in the treatment of carcinoma of the breast has varied. The early cases were treated with unfiltered rays by fractional doses often repeated After 1905 a leather filter was used first but later was gradually supplemented by aluminum filters As more penetrating rays were applied the thickness of the latter was increased and from 1010 to 1022 usually ranged from 4 to 6 mm Since 1022 high voltage rays with a o 5 mm copper filter have been employed

Up to 1905 the treatment was given chiefly over the operative field without definite limitations of the area involved. Between 1905 and 1910 cross firing was developed the rays being delivered into the mammary region the aulia and the supra clavicular region Beginning at about 1910 definitely outlined fields of limited extent were irradiated this practice being followed until 1922 With the use of high voltage and highly filtered rays fields became larger At first an intensive method of treatment was used the entire dose being given in from one to three days. As this caused considerable radiation sickness it was gradually replaced by the use of less penetrating rays given in fractional doses over various areas depending upon the extent of the lesion and the patient's condition A table shows the radiation values according to the year of beginning treatment and expressed in percentages of patients alive after three and five years

The general impression gained by the authors was that each advance in technique was followed by an improvement in the results obtained accurate comparison year by year was possible because of the variability in the character of the cases treated

With a view toward making approximate estimates of the value of radiotherapy in cancer of the breast the histories of 701 cases referred for such treatment are analyzed in detail and the findings compared with the statistics of cases treated by other methods. The cases included early operable ones in which operation was contra indicated or refused, late operable cases with glandular involve ment recurrent operable cases of advanced re currence and metastasis, and primarily inoperable cases In some of them radiotherapy only was used in others, it was employed in conjunction with

The article includes tables showing the types of cases the extent of the involvement and the duration of life after beginning treatment percentages of patients alive after three and five years in the different groups compare very favorably with those of surgical longevity tables especially in the late operable and recurrent cases. In the primarily inoperable cases treated by irradiation the average duration of life was considerably longer than in untreated cases reported by others

An analysis of the results obtained indicates very clearly the great advantage of radiation therapy in carcinoma of the breast as an adjunct to surgery and in the hopeless recurrent and inoperable cases It is of value not only in increasing the duration of life but also in relieving the suffering Good end results depend upon the early recognition and early treatment of the condition The patient will survive longer if radiation treatment can be instituted early -at the latest from two to four weeks after ADOLPH HARTUNG M D

klopp E J Billings A E Manges W F and Gibbon J H Symposium on Surgery of the Breast Atlantic M J 1026 XXIT 520 522 524

KLOPP in discussing carcinoma of the lactating breast calls attention to its marked malignancy and states that when the diagnosis is made it is too late for surgical intervention Suppurative mastitis the condition with which it is most often confused is characterized by bright redness of the skin elevation of the temperature and leucocyte count and the presence of fluctuation. In carcinoma of the lactating breast there is usually no lump and the skin shows a brawny induration. As most of the patients operated upon die within a few months

operation

and many of the others show early involvement of the other breast klopp advocates treatment with radium and the X rays. He reports three cases, in all of which the disease was rapidly fatal

Billings states that progenic infections of the breast are usually caused by the staphylococcus or streptococcus aureus and result in either an acute mastitis or abscess formation. The abscesses are subarcolar, intramammary, or retromammary. In opening, superficial abscesses Billings uses the ordinary incision radiating from the nipple, but for deep abscesses he advocates more general use of the Thomas Warren incision (beneath the inferior surface of the breast) with through and through drainage for generalized infection and the employment of Dalm's solution.

Tuberculosis of the breast, which may be primary or secondary, is rare, only about 200 cases having been reported. The most common initial sign of tuberculous mastitis is a painless lump. The course of the condition is more rapid than that of carci noma. The suggestive signs are rapidity of development and changes in the size and consistency of the tumor, early axillary lymph node involvement, a marked tendency toward the formation of abscesses and fistules, and retraction of the nipple. The most satisfactory treatment is complete exission of the breast and involved lymph nodes.

Syphils of the breast may be manifested by the initial lesion, a mucous patch, a diffuse mastitis of the secondary stage, or gumma formation. It is difficult to make a differential diagnosis between gummata, the infilirating mastitis of the secondary stage, and carcinoma, but with proper investigation, laboratory aid, and, if there is doubt with regard to the Wassermann reaction, a therapeutic test with antisyphilis treatment the nature of the condition will usually be revealed. The treatment of syphilis of the breast is, of course, the treatment of constitutional syphilis

Actinomy costs and sporotrichosts of the breast are very rare conditions due to funging. A diagnosis of either in the early stages is rarely possible. Only by laboratory aid can a positive diagnosis be made Excission of the involved tissue with the free administration of iodides internally and the use of Lugol's solution locally are the measures employed in the treatment of both.

MANGES bolds that in carcinoma of the breast Y ray therapy is usually second in importance to surgery, but in cases which are not suitable for surgery, such as those with recurrence or metas tases, it is of first importance

The \(\lambda\) rays are of definite value in determining whether or not there are metastatic lesions in the chest or bones. Such studies should be made routinely before operation. When there is evidence of metastases in the bones or within the chest the lesion is primarily inoperable.

In advanced inoperable cases in which there is much destruction of breast tissue and the lesion is firmly attached to the chest wall or there is massive glandular involvement, or the intrathoracic lesions are extensive, a cure is not to be expected from the use of the X rays or surgery or of both. If the patient still has the strength to withstand the reactions from X ray treatment, the results in such cases are about as follows first, relief of the pain (at times this is striking, permitting the discontinuance of morphine), second, control of the hemorrhage and sloughing, third, retardation of the progress of the disease both in the primary growth and in the metastatic area, fourth, encour agement of the patient and to some extent restoration of her social status, fifth occasional conversion of an inoperable case into an operable case, and syth, prolongation of her

Postoperative X ray treatment should be given only when the wound has healed sufficiently so that there will be no danger of its separating as the result of the action of the rays on the young scar tissue. This time is from two to four weeks after the operation.

Gribnow states that in their zeal to operate early and thoroughly surgeons have become rather care less with regard to diagnosis and many of them make little attempt to differentiate from cancer any of the bening growths except the hard adenomata occurring in the breast of a woman near 40 years of age they have considered sufficient warrant for removal of the breast

In an analysis of he last 200 breast cases (excluding infections), Gibbon found that the non-malig nant breast conditions requiring surgical treatment were nearly as common as the malignant (45 per cent of the 200). The diagnosis of beingin tumors is usually not difficult, but when it is, the decision should be made by the excision of considerable breast tissue rather than by incision.

Cysts of the breast are very common and rarely undergo malagnant change unless they are subjected to improper treatment such as irradiation. They are most common in women who have not borne children, and occur usually between the ages of 30 and 45 years. As a rule they are single, but they may be multiple and sometimes occur simultaneously in both breasts. A cyst is often a painful condition, especially if it is of rapid development. The pain and soreness are increased by menstruation. Palpation reveals circumscription and fluctuation, the one when the breast is gently rolled on the chest wall under the hand and the other when the tumor is held against a rib and palpated with two fingers.

When the breast is large and the cyst is small, fluctuation is sometimes difficult to detect and often overlooked

Enlargement of the axillary lymph glands is never present unless suppuration has occurred in the cyst which is extremely rare and easily determined from the local signs

Chronic cystic mastitis is not so early diagnosed as cancer or the single cyst because its physical

signs are often more vague. It occurs as do cysts and cancer at about middle adult life. The patient complains of pain or discomfort in the breast especially at the menstrual period a history rarely obtained in cancer. The area of the breast involved is usually the lower and outer quadrant and often a certain amount of induration and sometimes lobulation of the breast tissue can be felt in this region. Such patients should not be turned away with the statement that nothing is wrong but should be advised to present themselves every two or three months for vamination.

A thickneys of serum or of blood from the nipple use? I to be considered evidence of malignancy. This is not rare after the menopause especially if the little has been brought about his surgery reduces nor the Virus and is of no serious significance. If success the distribution of the amply or be a mass under it operation of the amply or be a mass under it operation.

titon or tree

The fit romata or more correctly speaking the adenomata are can't recognized. They occur in young adult life or a left of need and they may be unjoin multiple. They are hard or tense freely may also mouth the facility painful. The papil lars of tiden min 11 mgn tumor and has been included with the all multiple.

I water of the it in the letter cuttine (except in chronic even that it lubri hardness retraction of the right in the are glandular enlargement to the problem that the condition and it is a bengin condition and it is not be performance of a

rdi l pert n

TRACHEA LUNGS - PLEURA

Pouzin Valegue Y Sep atton of a Pleural Adhesion in the Court of the Pourth Year of Insufficiation of Artificial Pneumothorax (Dicollement du Habbener pleurale au cours de la quatreme anno di neuflistion d'un pieumotho rav artificati) d' di mém Soc méd d' hôp de Par 1426 hi s

The author report the case of a patient 32 years old who was treated by extensive fibrocaseous tuber culossof the left lunny artifacial pneumothorax over a period of four year. In the first year injections were made every fillen days in the second year every a weeks in the third year every four weeks and in the fourth year, every five weeks. Several insufflations were to need by collapse of the lung

except in the left upper thorax which was blocked by an adhesion at the level of the hius (shown by the \tay). The treatment caused cessation of the bruit almost complete subsidence of the functional symptoms and disappearance of the tubercle backlin from the sputtum. After four months the cough was negative the expectoration slight and the temperature normal.

The \(\text{rsy}\) pacture remained constant until the fourth sear After a acoc em injection with a terminal pressure of \(\text{-}\) d'uring the fourth sear the \(\text{-}\) ray showd eteration of the left aper toward the midline. On the following day pain suddenly developed in the left side and the temperature rose to 38 degrees C for two hours. The next insuffiction also was followed by fewer but subsequent injections were afternle. The \(\text{-}\) ray should total puer mothorax on the left side.

The author considers this case unusual The adhesion was extremely solid for nearly three years it resisted an average pressure of +14 (sometimes +27) and in the fourth year yielded suddenly thereby transforming a partial into a complete pneumothorax The case shows also that a non collapsed portion of lung does not necessarily have the visceral and parietal pleura adherent over its entire surface.

The partial pneumothoray gave a very satisfactory result. If collapse of the upper part of the left lung had seemed advisable it might have been accomplished by injecting above as well as below the adhesion. Walter C Burker MD

Manges W.F. Non Opaque Foreign Bodies in the Air Passages X. Ray Diagnosis and Localization Best J. Radiol. 1926 xxxx 119

A non-opaque foreign body lodged in a bronchus may be diagnosed and localized by mem so the V ray with almost the same degree of certainty as an opaque foreign body. Non opaque foreign bodies which are not found at the first examination are often revealed when repeated examinations are made. Most non-opaque foreign bodies belong to the vegetable kingdom. They may produce obstructive emphysema atelectasis drowned lung of lung abscess.

Öbstructive emphysema is a condition in which the lung distal to the foreign body is or endistended with air because there is greater obstruction to the air current at exparation than at inspiration. The area of lung involved depends upon the location of the foreign body. When it is in the main bronchus one entire lung is overdistended and may come to expiration. Therefore the N. Vig. Simple of the expiration. Therefore the N. Vig. Simple of the expiration. Therefore the N. Vig. Simple of the production of the control of the

t Increased transparency of the affected lun the rays passing through the affected side mor readily

Depression and limitation of motion of the disphragm on the affected side. The disphragm on the affected side is frequently considerably lower ut expiration than at inspiration because of the more powerful contraction of the intercostal muscles compressing the obstructed lung and forcing the dia phragm down. The excursion on the unaffected

side is at times most striking

3 Displacement of the heart and the other mediastinal structures to the unaffected side at expiration. At times the heart seems to swing like a pendulum from the upper mediastinum, and at other times it seems that the entire mediastinum, both upper and lower, moves laterally to almost the same degree. In the former case the obstruction is probably limited to the lower half of the chest, and when there is noticeable displacement of the upper mediastinum there is probably also obstruction to the upper lobe bronchus.

At lectasis occurs when the size and shape of the foreign body are such that it obstructs the bronchus completely to inspiration. Whatever the cause of such plugging, the air distal to the foreign body is rapidly absorbed and the lung shrinks to small size and becomes a mass of solid tissue casting a homo geneously dense shadow. The \text{\text{ray}} a diagnosis depends upon the density of the shadow, the diminution in the size of the lobe or lung involved, and the displacement of the heart and mediastinal structures.

to the affected side

Drowned lung is a condition in which exudate arising distal to the foreign body gradually goes by gravity into the smaller bronchi and air vesicles filling them and driving out the air or causing it to become absorbed. The exudate adds density to the lung shadow and may be present in such quantity that the lung involved may still occupy its normal space in the chest.

Lung abscess may occur fairly early after the aspiration of the foreign body When there is evidence of an infectious pneumonia in the distribution of the bronchi of the lower lobe it is most probable that the lesion is due to the aspiration of foreign material unless there is a very definite history of

some other cause

When the foreign body is in the trachea the fol

Iowing signs are noted

r An increased transparency of both of the lungs

- 2 Depression and limitation of motion of both sides of the diaphragm. The diaphragm is lower at expiration than at inspiration because of the more powerful contraction of the accessory muscles of respiration. When there is obstructive emphysema of both lungs the diaphragm moves downward and seems to leave the heart suspended in the chest so that its entire lower border is visible.
- 3 Rotation of the heart so that its transverse diameter is less at expiration than at inspiration. If it is found that the heart shadow is narrower at expiration than at inspiration, we may conclude that there is expiratory difficulty because the chest wall contracts at expiration even when there is expiratory obstruction.

Occasionally there are cases showing overdistention of both lungs, but at the end of expiration the heart goes a little more to one side and the dia phragm is depressed on one side more than on the other

In such cases the foreign body is at the bifur cation and producing expiratory obstruction on both sides but a little more obstruction on one side because it has a tendency to go into the bronchus

on that side

When the foreign body is in the main bronchus and the expiratory obstruction is only slight, local zation as to the exact position in the bronchus is difficult, but when the obstruction is more marked it becomes apparent that one entire lung is involved and the aorta as well as the heart is displaced laterally.

When the foreign body is below the upper lobe bronchus and the obstruction is slight, localization is difficult, but when the obstruction is marked, the signs are positive for localization because it is seen that only the lower part of the lung remains over distended at expiration and the heart swings more like a pendulum with the aorta remaining fairly fixed

In true atelectasis and drowned lung the localization is apparent. In areas of infection the foreign body may either go into the center of the infected area or remain at its original location, held by contracting circatrical fusion.

RAYMOND GREEN M D

Tucker G Recent Developments in Peroral Endoscopy (Esophagoscopy and Bronchosco py for Disease Report of Cases Surg, Gynec & Obst 1926 vlin 743

Tucker reports two cases of postoperative mas sive collapse of the lung which were examined

bronchoscopically

The first was that of a boy 13 years of age who was operated upon under ether anæsthesia for the drainage of an appendiceal abscess Thirty six hours after the operation the patient became very ill and collapse of the right lung was shown by the \ rays The expectoration was typically te nacious Bronchoscopy carried out forty-eight hours after the onset of symptoms showed the tracheal mucosa to be reddened and gray lower trachea and right bronchus were definitely inflamed The stem bronchus of the right middle and lower lobes was completely blocked by thick tenacious secretion This secretion was aspirated Physical and X ray examination immediately after the aspiration showed that air was entering the right lung and that the displacement of the heart toward the right side was less. Within twenty four hours the collapse recurred, but at the end of forty eight hours the lung had begun to clear Bronchoscopy at the end of the third day showed a marked diminution in the inflammatory reaction of the trachea and bronchus The secretion was thin and could be aspirated without any difficulty Recovery was uneventful

The second case was that of a 6 year-old boy, who was operated upon under ether anæsthesia for the closure of a gastrostomy fistula Thirty six hours after the operation pulmonary symptoms developed and by the end of forty eight hours there were typical signs of massive collapse of the lung At bronchoscopic examination seventy two hours after the operation the left bronchus was found greatly inflamed and filled with a thick tenacious secretion Following the aspiration of 10 ccm of the secretion air entered the left lung. One and one half hours later roentgenograms showed the left lung to contain considerable air but after forty two hours the lung was again collapsed. After the aspiration of 14 c cm of tenacious secretion the lung again became aereated Three days later because of a recurrence of the pulmonary collapse a third bronchoscopy was done. The secretion was then much less viscid. Three subsequent bronchos copies were carried out

Postoperative pulmonary abscesses may result from the inspiration of infected material or from a blood borne infection. Those caused by the inspiration of infected material directly into the bronchial tree are best treated by early aspiration through the bronchoscope. Three cases of pulmonary abscess treated bronchoscopically are reported.

Case I was that of a man 40 years of age who developed pulmonary symptoms four days after a tonsillectomy and was treated medically for four months Bronhoscopic studies revealed an abscess in the lower lobe of the left lung. Expectant treatment. The patient then developed a higher fewer and the month of the contract
Case 2 was that of a boy 7½ years of age who developed a cough the first week after a tonsilectomy. Upon his admission to the hospital sevens weeks after the operation a pulmonary abscess was located in the right upper lobe. Following bronchos copy there was considerable fettid sputum. After a second bronchoscopy at which considerable pur leint material was aspirated from the right upper lobe the temperature fell to normal and uneventful recovery resulted.

Case 3 was that of a man 30 vears of age who complained of pain in the chest two days after an operation on the lower jaw. Upon the patients admission to the hospital three weeks later an abscess was found in the middle and lower lobes of the right lung. Bronchoscopic treatment was carried out at weekly intervals. After five such treatments the inflammatory reaction had almost entirely disappeared. Three weeks later the bronchus was practically normal and the bronchial tree free from pus. At the end of four months the patient was considered cured.

Tucker reports also a case of malignancy of the thyroid in which the bronchoscope was used as an aid to tracheotomy. The compression and distortion of the trachea were so great that tracheotomy would probably have been impossible without bron choscopy In a case of lymphosarcoma of the mediastinum tracheotomy was performed with the bronchoscope in situ Because of the marked com pression of the trachea down to its bifurcation and compression of the left bronchus a Jackson cane tracheotomy cannula was used to permit free access of the air to the right lung. In a case of retropharyngeal esophageal abscess which was drained the bronchoscope was used to keep the trachea open and to aspirate purulent material accumulating in the trachea

ALTON OCHSNER M D

hern R A Lung Abscess from the Medical Standpoint Am J Rendfacol 1976 X 40, Pancoast H K. The Roentgen 1976 X 40, Tucker G Bronchoscopic Treatment of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Am J Rendfacol 1976 X 410 Muller G P Surgical Aspects of Lung Abscess Muller G P Surgical A

KERN In many cases of lung abscess the respon sibility for the diagnosis and the selection of the method of treatment falls largely on the internist The multiplicity of causes producing lung abscess makes it impossible to speak of a typical clinical picture in the early stages as the symptoms depend in a measure on the cause. Abscesses of post pneumonic origin those following tonsillectomy or other operations in a septic field and those due to aspirated foreign bodies present different clinical pictures at the onset but cases of long standing from any cause look very much alike all showing evidences of long continued sepsis with the unmistakable signs of a lung lesion. The physical signs are variable depending upon the location of the lesion and the stage at which the examination is made. Deep abscesses and those near the hilum may give few or no signs, while superficial ones may present the findings of a localized consolidation or cavity Diagnosis by attempted aspiration is condemned

An abscess in an upper lobe is more apt to have adequate natural drainage than a lower lobe lesion and therefore is less likely to require external drainage

An abscess situated close to the lung hilum is not only in close relation to large bronch and therefore likely to drain spontaneously but is also in an excellent position for bronchoscopic approach. On the other hand an abscess close to the periphery of the lung which is connected with only small terminal bronchi can rarely be emptied satisfactorily by postural drainage and is difficult to reach with the bronchoscope. For the treatment of such a lesson surgery usually becomes necessary

All cases of lung abscess require medical treat ment at first regardless of their subsequent cour e This should include postural drainage, rest in bed during the febrile stage, and a high calorie duet to maintain the patient's nutrition and strength. The drugs to be used depend upon the indications. Some cases are benefited by autogenous vaccines prepared, preferably, from uncontaminated material obtained through the bronchoscope. Bronchoscopic treat ment also is frequently of great value. Medical treatment should not be persisted in too long. It should be checked by frequent careful observations of the physical signs and rentgen examinations. An abscess which has not cleared up at the end of three months is not very likely to do so thereafter without the aid of surgery.

PANCOAST The roentgen ray examination of a case of lung abscess should be preceded by a care ful clinical study. The purpose of the X-ray examination is primarily to confirm the clinical diagnosis, to furnish the additional information needed to establish it, or occasionally, to present the entire pathological picture necessary to explain the subjective symptoms or to correct a mistaken opinion.

The interpretation of the roentgen ray evidence of pulmonary abscess is usually not difficult, but the findings are not always strikingly characteristic Roentgenoscopic examination is advisable when the condition of the patient will permit it If possible, it should be made in the erect posture in order to study the diaphragmatic movements, to observe fluid levels and to locate adventitious shadows so that the patient may be placed in the most advan tageous position for the roentgenographic examina Stereoscopic roentgenograms in the erect posture are always esential Direct lateral views in the erect posture are usually necessary to deter mine the extent and location of the lesion If there is a fluid level, these points can frequently be determined still more fully by making a fore and aft view with the patient lying on the unaffected side Finally, serial studies are frequently required for diagnosis because it is necessary to find cavita tion which may not appear at first or to await the clearing up of an obscuring, delayed pneumonic resolution, an excessive inflammatory zone or an atelectasis A case should be studied serially until the diagnosis is apparently assured

The cause of a lung abicess frequently has some bearing on the early roentgenographic appearance of the lesion. A postpineumonic abicess may be largely obscured by the changes of delayed resolution or other associated changes. A typical lung abicess presents two essential roentgenological appearances, acute consolidation and cavity. To these may be added such accondary, findings as may be produced by extensive areas of congestion, atelectasis, empyema or pyopneumothora. Successive examinations will show varying appearances, depending upon whether regression or progression of the lesion is taking place. The results of treatment, be it medical, broncho scopic, or surgical can be studied best in this way Such complications as rupture into the pleural

cavity may be readily detected

TUCLER Bronchoscopy is of value in both the diagnosis and the treatment of lung abscess. In the diagnosis it will give information relative to the location of the lesion and indicate the amount and character of the pus and indicate the amount and the local condition of the bronch in the affected area. Uncontaminated cultures may be taken from the suppurating area for the determination of the bacteria present or the making of autogenous vaccines. Neoplastic growths can be ruled out. Foreign bodies which may be etiological factors can frequently be located and removed.

Therapeutically, bronchoscopy may be used to aspirate stagnant secretions remove granulations, dilate trictures, and apply medicaments locally Bronchoscopic aspiration is indicated particularly when the lesson is in or in close provimity to the bronchi and drainage is deficient, also in the acute cases with definite evidence of aspiration infection

The bronchoscopic treatments are carried out once or twice a week as the lesion and the condition of the patient may indicate. Under bronchoscopic treatment many patients are benefited and many are cured none are made worse. In some cases the progress of the disease has not been arrested. In a few of these a more definite localization of the lesion has occurred, making the abscess more accessible to external drainage. A case demon strating the value of bronchoscopic treatment is reported. It would be a mistake to undertake the bronchoscopic treatment of lung suppuration in dependently. The interests of the patient are best served by co operation of the internist, the roent genologist, the bronchoscopist and the surgeon

MULLER The treatment of lung abscess resolves itself into adequate dranage, of the cavity and dilated broncholes. When this cannot be done satisfactorily by the postural method or broncho scopic aspiration in about two months, surgery is indicated. In cases in which drainage is established but the cavity persists after several months, external drainage must be considered. Drainage with the aid of artificial pneumothorax has been advocated but has not been universally accepted. The principal objection to surgical treatment is its high mortality but this is probably not a direct consequence of the operative treatment itself. The disease is a serious one and operation is usually per formed months after its onset as a last resort

Before operation the patient's condition should be improved as much as possible. Salt water influsions or blood transfusions should be given when in dicated. The operation should be done preferably in two stages, the lung over the abscess bing allowed to become adherent before it is opened. After the cavity has been entered with the cautery drainage should be established with a soft rubber tube. Subsequently if the patient's condition warrants it and the pathological changes present require it, more extensive surgery may be done, such as cautery pneumectomy as introduced by Graham and Singer. Drainage should be continued

for at least six months especially if there is evidence of a bronchial fistula. The patient should be kept under observation by the clinician bronchos copist roentgenologist, and surgeon because 'fare ups frequently occur and sometimes serious symptoms develop suddenly after recovery seems assured. Apontar Hartman MD.

CESOPHAGUS AND MEDIASTINUM

Gaudier II Median Sternotomy as a Palliative Decompressive Treatment for Tumors of the Mediastinum (Sternotome médiane comme traite ment palliant décompressi des tumeurs du média astun). Bull et ném See nat de chir 1936 lu 243 Gaudier reports the case of a woman of 40 years who had a tumor of the breast removed. Ten years later a metastassis developed in the mediastinum without an) local recurrence. The right arm then became greatly swollen and the patient suffered from d'sphaga crises of asphyraia, and almost

unendurable pain. She was given deep roentgen

therapy, but after each treatment the symptoms became more severe probably because of congestion and increased pressure

Under local anæsthessa a flap of skin and apo neurosis was turned back and the line between the suphoid process and the sternum was sectioned. The sternum was then incised along the midline and its lower surface carefully dissected free from the underlying tissues

The patient immediately felt the most profound relief as if she said a corset that was too tight had been removed. The two halves of the sternum separated g om I norder to keep the space open on respiration a flap was cut from each side its base being left adherent and sutured to the opposite side with all. A drain was left in for forty eight hours. After the operation the blood pressure fell the pulse became normal the patient was able to eat and draink without difficulty, and the asphysia and pain ceased. Roentgen therapy can now be given without causing any signs of congestion.

AUDREY G MORGAN M D

SURGERY OF THE ABDOMEN

GASTRO-INTESTINAL TRACT

Rose E The Relation of the Chlorides of the Body to Disease of the Gastro Intestinal Tract Manual J 1026 vvv 613

Chlorides are present normally in the plasma in a concentration ranging from roo to ro8 millimolis. This method of expressing concentration uses the same limits as those ordinarily employed in designating the degree of free and total acidity of the stomach contents and is equivalent to expressing the concentration in cubic centimeters of ro/N per roo ccm.

The sodium of the plasma constitutes about 93 per cent of the total fixed base of the plasma in man, while the Cl ions form about 65 per cent of

the total acid radicles

Normally, the concentration of chlorides (partl) as HCl and partly as NaCl in pure gastric juce as secreted varies from 140 to 170 millimols, while after a test meal it is from one third to two thirds this amount. Hydrochloric acid activates the pepsin controls certain phases of pylonic action, and acts as a bactericide. In carcinoma of the stomach the concentration of chlorides in the chyme has been found to be from 75 to 115 millimols while in other benign achylas it ranges from 40 to 75 millimols.

In pernicious anamia there is a deficiency of both hydrochloric acid and sodium chloride. This deficiency impairs gastric digestion and may account for the annoying gastric symptoms. Therefore large doses (4 to 8 c cm) of hydrochloric acid with pepsin are advocated in the treatment of permicious.

anæmia

In pyloric and duodenal obstruction experiments have shown that there is a constant fall in the blood chlorides with a rise of the blood urea mirrogen and non protein nitrogen Similar findings were made in obstruction of the pylorus and upper intes tinal tract in man The administration of sodium chloride with sufficient water in these cases app ars to evert a beneficial action and should be used as an adjunct to surgical treatment. Hydrochloric acid does not exert a similar action According to Haden and Orr, the chlorides of the body have a specific antagonistic action on a torun produced in the obstructed gut Gamble finds that after pylonic or duodenal obstruction there is a loss of chlorides into the stomach both as hydrochloric acid and sodium chloride and suggests that it is the loss of the sodium with the attendant diminution of the total salt concentration of the blood which proves fatal in such cases unless the blood concentration is restored to normal by the administration of sodium in the form of NaCl HERMAN H HUBER M D

Abt I A, and Strauss A A A Clinical Study of 221 Operated Cases of Hypertrophic Congenital Pyloric Stenosis Wed Clin N Am 1926 ix 1303

Of 221 patients operated upon for congenital hypertrophic stenosis of the pylorus 161 were males and the majority were between 3 and 8 weeks

of age

Vomiting was a sign in all of the cases, and occurred most frequently during the second or third week of life. As a rule it was of the projectile type Constitution beginning most frequently during the third or fourth week was present in 158 cases. Between the second and fourth weeks there was usually a loss of weight, varying from 4 oz to 4 lbs 8 oz. Among the less frequent symptoms of the condition were constant hunger, restlessness, crying and fever.

Typical large peristaltic waves starting at the left hypochondrium and passing obliquely across to the right were observed in all cases immediately after the baby was given milk from the breast or water from a nursing bottle. A tumor—the hyper trophied pylorus—was definitely palpable in about 25 per cent of the cases. Some degree of emanation was present in all. The fluoroscopic examination for which a small amount of barium was added to the breast milk given the infant while it was under the horizontal fluoroscope absolutely confirmed the diagnosis of pyloric stenosis.

The rhythmic, snakelike peristaltic contractions seen in the pilorus, independent of the contractions of the rest of the stomach are definitely pathogno mome. In the author's cases the fluoroscopic examination is repeated at the end of two and four hours at which time roentgenograms are taken. If one half or more of the barium milk remains in the stomach at the end of four hours the case is referred for operation. When more than 80 per cent passes

through operation is deferred

As a rule, patients are not subjected to operation immediately upon their entrance to the hospital. An attempt is made to improve their condition before operation. From roo to 150 cc m of saline solution is given by hypodermoclysis every four hours and from 1 to 2 oz of 5 per cent glucose with 2 per cent sodium bicarbonate is given per rectum every three hours. If their condition is poor, from 50 to 150 cc m of glucose, usually followed within six hours by from 60 to 80 cc m of blood, is given through the superior longitudinal sinus.

The operation is similar to the Rammstedt pyloroplasty but the mucosa is shelled out more freely from the muscularis and a plastic flap is made of the musculari. The free edge of the attached

omentum is then brought over the pylorus

While the patient is still on the operating table, too cem of normal saline solution is given by hypodermoclysis. Feeding is resumed early. Be ginning within one bour after the operation, it of breast milk is given every two hours the first day. The amount is then increased ½ of every few hours. At alternate hours, water is given. Glucose per rectum is given as previously described.

All infants gain weight while they are in the hospital and continue to do so after they leave Vomiting and digestive disturbances have not

recurred in any of the cases traced

RATMOND GREEN M D

St John F B Long Standing Ulcer of the Stom ach Ann Surg 1926 lyxxii 852

The author reports a case of gastrac ulcer with a substory of forty years. The patient a 50 year old woman was first operated upon twenty years ago when a large gastrac ulcer on the lesser curvature was excused. The next operation ten years ago was an anterior gastro enterostomy. Three years later symptoms recurred and at a third operation ad hesions about the stomach were divided. Again the patient received temporary relief but returned seven years later because of severe abdominal pain and yomiting.

St John then did an exclusion operation by sectioning the stomach at the juncture of the upper third and the lower two thirds well above the incisure angularis and performing an anterior long loop gastrojounostomy. The patients condition did not warrant the division of adhesions and resection of the distall portion of the stomach Today three years after the operation the patient is able to eat an unrestricted diet without nausea and or vomitting.

Lecène The Rôle of Infection in the Development of Ulcers of the Stomach (Sur le rôle de l'infection dans lévolution des ulcères de l'estomac) Bull et mém Soc nat de chir 1926 lu 326

Duval has said that infection plays a most important rôle in the evolution of gastric ulcers and that infection of the ulcer is responsible for most of the deaths and also most of the complications fol

lowing operation for gastric ulcer

If this theory is correct the excision of an active videor is associated with the danger of increasing the virulence of the bacteria in the lesion. Therefore the food given the patient before operation should be rendered as a septic as possible the pre-operative preparation should include gastric lavage and during the operation great care should be taken to protect the tissues surrounding the operative field. Pre-operative vaccination and postoperative serotherapy may also be used

Lecene does not agree with Duval that the stoma of the gastro-enterostomy should be made as far distant from the ulcer as possible. He places it as near the pylorus as possible to prevent blary reflux and vicious circle. He does not believe that the ulcer

infection is responsible for peritoneal infection round the suture line or for postoperative gastro jejural or jejural ulcers. In his opinion the cause of these conditions is still unknown. He has seen peptic ulcers appear as late as eleven years after gastro enterostomy for ulcer although during all of that time the patient's disgestion was normal. The ulcer in such a case could in no way be attributed to prolonged infection.

Rather is Lecene inclined to blame the technique of the surgeon. The technique used today must be still further perfected. Lecene empha izes the importance of perfect protection of the operating field rigorous haemostasis, and the createst care in

suturing

In conclusion the author says that before we can determine the cause and treatment of ulcer the problems of hydrochloric acid secretion of the gastric glands and the defense of the gastric and intestinal mucosa against autodigestion must be Solved ELLIOG SPEP M D

Lambret O Preventive Vaccination Against Pul monary Complications in Operations on the Stomach (A propos de la vaccination préventive des complications pulmonaires dans les opérations gastinques) Bull et mém Soc nat de chir 1926 la 278

The author has just completed a series of 300 consecutive gastric operations without a single fatal complication. Slight complications occurred in fifteen cases

In 05 per cent of the cases the operation was performed under local anaesthesia

To prevent pulmonary complications Lambret resorts to vaccination First an intradermal test is made. If this is negative vaccination is unnecessary

If it is positive an injection of r c cm of a solution of enterococcus is given and repeated every second day

The solution used for the first injection contains so million of the organisms that used for the second soo million that used for the fourth billion, and that used for the fifth, sixth and seventh 4 billion. After the injections have been completed the intra dermal test is negative

Patients with a positive intradermal reaction have no specific antibodies against the enterococci in their blood. Vaccination according to the method described causes the appearance of such antibodies. When the reaction is negative the vaccine is un necessary and dangerous.

Vaccine should not be made from too active bacteria. The doses should be increased progressively

as described

The author hopes to reduce the time consumed in this immunization by the use of bacteriophages given by mouth a day or two before operation. He suggests that the bacteriophages might be introduced also into the operative field.

KELLOGG SPEED M D

Duval Roux Gatellier and Moutier The Relations
Between the Infectious State of the Gastric
Wall and Certain Troubles Following Gastro
Enterostomy Vicious Circle Acute Chronic
or Delayed, and So Called Gastrojejunal
Peptic Ulcer (Relations entre 16at infectieux
des parois gastriques et certains troubles consécutifs
à la gastro entérostome circulus vitiosus aigu
chronique tardii ulcère dit peptique gastro
jéjunal) Buill entem Soc nat dechr 1926, ju 270

About three years ago the authors published an article in which they advanced the theory that an important factor in the development of certain chronic gastroduodenal ulcers and of complications following gastric operations is infection in the stomach wall and the perigastric lymphatics. Today this theory is generally accepted in France and is

becoming widely accepted in Germany

The complications arising after operations on the stomach, especially gastro enterostomy, are of two kinds—vicious circle and gastrojejunal peptic ulcer Vicious circle acoff different types, viz, acute gastro duodenal dilatation, chronic vicious circle according to Finsterer, and postoperative delayed vicious circle. For a long time acute dilatation of the stomach has been regarded as the result of a local ized perigastroduodenal peritonitis. The authors classify with this type of postoperative peritonitis certain chronic syndromes of vicious circle coming on between the seventh and the tenth day after operation and characterized by chronic vomiting, bilious vomiting, or mixed intestinal and bilious

In several such cases in which a second operation was done a subacute localized submesocolic perionitis was found. Late vicious circle must arise from late stenosing adhesions about the duodenum, the stoma, or the efferent or afferent loops of the

small intestine

The authors report the case of a woman who, after a gastro enterostomy, had severe vomiting and a fever up to 38 degrees C. The vomiting continued for ten days. At a second operation a band of mesentery across the stomach was released. The vomiting then ceased

A case of the late type was that of a man who ran a fever of 30 degrees C for several days after a gastro enterostomy and a year later began to have bihary comiting. A second operation revealed addessions from the mesocolon which had blocked and dilated the duodenum Duodenojejunostomy resulted in a cure

As an immediate postoperative complication there is rapid dilatation of the duodenum. When the peritonitis is rapidly spreading with reddening of the serous surface this results in early death from intoucation. When in cases of more attenuated peritonitis the gastine dilatation develops much later, and especially when the vicious circle is chronic, operation reveals an organizing peritonitis with membrane and stenosing adhesions around the duodenium, the stoma, or the jenual loops. Removal

of the adhesions will effect a cure. These newly formed peritoneal adhesions must come from infection in the field of operation.

In the search for the source of the infection, the operative technique should receive first consideration. In the early days of gastro enterostomy vicious circle was quite frequent, but today, with the perfected technique, it should be very exceptional. The operative manipulation may provoke an irritative peritonitis and the opening of the stomach and bowel may permit direct infection of the peritonium.

Gastric ulcer seems to be associated with a true gastrius Most gastro enterostomes are done near the antrum. The wall near the antrum is very liable to be infected and most ulcers are situated there Unifavorable sequelæ occur most frequently after gastro-enterostomy. Gastropylorectomy is free from them as in pyloric resection the zone of gastrits is usually within the resected portion and the incision is made through normal tissue.

The authors do not apply this direct infection theory to the formation of peptic gastroduodenal ulcer Jejunal ulcer they believe with Chiari, is

merely a septic ulcer

In one of their cases they found at the end of ten months an ulter of the stoma of the gastro enteros tomy, marked infiltration of the mesocolon, the stomach and the lejunum around the stoma, and enlargement of the lymph nodes in the mesentery Microscopic examination of the ulcer of the posterior hip of the gastro enterostomy showed typical sub acute diffuse inflammation. A culture from a lymph node yielded staphylococci and a culture from the ulcer showed both staphylococci and streptococci.

They believe therefore that these ulcers are caused by including a part of the inflamed gastric wall, and that the infection is not confined to the new opening but spreads along the efferent jeunial wall. They do not believe that unabsorbable suture material has much to do with the development of ulcer unless it is used in septic tissue, under which circumstances it may become a factor. The stomach clamp applied to a septic tissue may cause ulcer as the result of induced ischemia and the intraparietal effusion of blood. The use of hæmo stats and forceps in the mucosa may also favor ulceration if the tissues are septic.

The theory that the acid formed by the pyloric portion of the stomach causes renewed ulceration, a theory which has led to many resections of the stomach by German surgeons, may be quite wrong inasmuch as the resection of the pyloric portion may remove all of the infected stomach wall Certainly jejunal ulcer is avoided by gastric resection

The fact that jejunal ulcer may occur after pyloric exclusion with gastro enterostomy is explainable Operations on jejunal ulcers have a high mortality, probably because they are performed on septic tissue

**LELIGOG SPEED, M D

**Delicog SPEED, M D

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Ascoli M The Changes in the Gastric Chemistry
After Resection of the Stomach (Le modifica
zoni del chimismo gastrico dopo le resezioni dello
stomaco) Policlin Rome 1926 xvvin sez chir
117

The substances which ordinarily neutralize the gastine acidity are the panceaute junce and the bile After a Billroth I resection bile can enter the stomach only through the new plorus duning regiration. After a Billroth II operation all substances entering the duodenum are passed into the stomach by way of the jepunum but according to some investigators their quintity may not be jourse sufficient to neutralize the gastin cade.

In experimental studies hatzenstein found that after gastro enterostomy performed by different methods bile and pancreatic juice at first flowed constaintly into the stomach but later the flow was governed by the activity of digestion. He concluded that the constant lowering of the gastric acidity is due in part to the alkaline substance pouring in from the duodenum and in part to the decrease in the production of hydrochloric acid.

Other investigators believe that the pancreatic secretion is depressed to the same degree as the gastric secretion Ascoli has constantly found hypoacidity and anacidity. The amount of free hydrochloric acid was usually zero and the total acidity varied between zero and 10 per cent. Usually also there was a diminution in the pancreatic juice Ascoli studied eighteen patients seventeen of whom had a gastric or duodenal ulcer and one an epithe homa of the pylorus The operations performed were the Polya Balfour resection in seven (including the case of epithelioma) resection by the Billroth I method in five midkastric sleeve resection in five and cuneiform excision of the ulcer in one Except in the case of ulcer excision chemical examination was made in all cases up to twenty five days after the operation

In the cases treated by the Billroth I operation from 10 to 60 ccm was obtained on aspiration in those treated by the Polya Ballour operation from 15 to 350 ccm and those in which sleve resections were done from 0 to 30 ccm. Accordingly, there was no paralysis of secretion. After the Billroth I operation and sleeve resections there was always evidence of free hydrochlore aid but after the Polya Ballour resections there was a considerable decrease in total aculti, and in all except three cases absence of free hydrochloric acid. In three cases a trace of free hydrochloric acid was found These facts are explained by the lack of regurgitation of pontractic unce.

The regurgitation of bile also varied In only one of the seven crises subjected to a Polya resection was bile always present in the stomach. In those treated by sleeve resection it was always wanting Of the cases in which a Billroth I resection was done ble was found twice. After Polya resections the stomach emptied itself of food in from sixty to seventy five minutes.

The author's findings are summarized as follows I The Pdya operation was followed by a lowering of the total acidit; and almost complete achlorhydria probably caused by the loss of a certain amount of secreting mucosal surface the entrance into the stomach of alkaline duodenal junces as shown by the presence of bile pigment, and increased rapidit; in the emptying of the stomach which decreases the stimulus to the formation of gastire secretion

2 After sleeve resections no notable changes were found. There was no change in the function of the pylorus.

3 After the Biliroth I operation two types of results were noted depending on whether or not there was regurgitation of bile and pancreatic juice Kellogi. Speed M.D.

Case J T Diverticula of the Small Intestine Other Than Meckel's Diverticulum Bull Baille Creek Sanit & Hosp Clin Battle Creek Michigan 1926 xxi 87

Case reviews the findings in 6 847 complete barium meal studies. There were eighty five cases of duodenal diverticula four cases of jejunal diverticula and one case of diverticula in the jejunum and tleum.

Duodenal diverticula vary in size from that of a pea to that of a hen seg and are usually located in the second portion of the duodenum. They occur most frequently in females. Their empty, ing time is greatly prolonged. The large sacs contain no miss culairs. The submucosa which is thickened con sists of loose connective tissue richly supplied with blood vessels. The diverticula are usually sur rounded by adhesion. The sacs are sometimes intimately adherent to the surrounding pancieatic tissue and their excision may be difficult especially if they have undergone pathological changes.

The diagnosis depends entirely on the roentgen findings. A special fluoroscopic technique is de scribed. A divertisculum is suggested by a spherical shadow near or within the curve of the diudenal shadow which is independent of the Litter but bears a definite relationship to it and persists for hours or days after the clearing of the stomach. Usually there is no tenderness at the site of the shadow.

Most diverticula are funnel shaped If hand manipulation can move a diverticulum or express its contents the sac is usually ventral to the pan creas and can be resected

Diverticula in themselves may not cause any trouble but as they are often associated with ulcer of the duodenum or disease of the gall bladder or pancreas or may become the sites of inflammation their removal should be considered when they are discovered in the course of an operation on the duodenum or gall bladder. Diverticula with a very prolonged retention time should probably be removed. When surgicultreatments not indicated or cannot be carried out hygienic care of the intestinal tract and the administration of large doses of barum sulphate are advisable. Heauxi II Huges M.D.

Saraceni F Antonucci, C and Celiberti, A X Ray Visualization of the Duodenum by the Introduction of an Opaque Fluid Through the Einhorn Tube (La indagine radiologica del duodeno mediante introduzione di liquido apaco attraverso la sonda di Einhorn) Policlin , Rome to 6 vexus sez chir so

The authors report six cases in which an \ ray study of the duodenum was made by the intro duction of an opaque fluid through an Einhorn tube One of the subjects was an entirely normal person, the others were suffering from duodenal ulcer or periduodenitis They were prepared as for the ordinary gastric examination. The tube was introduced without difficulty, and because the duo denum is really a dorsal organ, the X ray exam mation was made with the patient in the ventrodorsal position The stopping point of the olive tip is very important If the tip is too high there may be a back flow of the fluid through the pylorus, while if it is too low, the filling of the bulb, the most impor tant part of the duodenum, will be unequal and incomplete

After the introduction of from 50 to 100 c cm of the barium preparation, the \ ray examination is made immediately in order that the entrance of the barium into the jejunum may not obscure the pic ture During the examination the patient holds his Forcible injection from a syringe does not cause discomfort even when a lesion is present. An aqueous preparation of barium sulphate is used as the oily preparation passes out more quickly It must not be so thick that it will block the tube

When the preparation is injected with mild pressure at first, it is stopped at the olive point by an annular spasm at that point, but in a short time it fills the duodenum rapidly in an antiperistal tic direction toward the duodenal bulb, expressing practically all air that is present

If the filling of the bulb is massive, the upper border is normally regular and cup shaped. In the dorsoventral position it is seen that the duodenal

bulb is situated in the vertical axis of the descending portion of the duodenum. The contours of the bulb and the upper part of the descending portion are clear cut, while those of the lower transverse portion are finely dentated The caliber of the lower half of the descending portion is much larger than that of the upper portion. The opaque preparation renders visible all parts of the bulb and the descend ing portion a few moments after its introduction No compression is necessary

KELLOGG SPEED, M D

Halpert B The Arteriomesenteric Occlusion of the Duodenum An Anatomical Study Bull Johns Hopkins Hosp Balt 1926 xxxviii 400

Halpert reports a case of arteriomesenteric occlu sion of the duodenum and by means of a drawing shows the topographical relationships of the duode num, the left renal vein, and the superior mesen teric artery

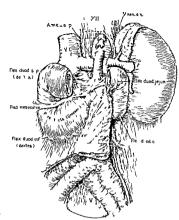


Fig. 1 Drawing from different stages in the dissection of the specimen, showing the topographical relationships of the duodenum the left renal vein and the superior mesenteric artery The flexura duodenojejunalis is shifted downward in order to show the vena renalis sinistra in the angle between the aorta and the superior mesenteric artery

The occlusion is usually caused by a fold of the mesentery belonging to the small intestine, which is displaced into the minor pelvis. In the case reported the duodenum was compressed between a mesenteric fold and the aorta or vertebral column Up to the point where the fold crossed the duode num, the gut was found to be distended, beyond, it was collapsed and emptied

This condition is apt to occur especially in cases of peritoneal abnormalities. In the author's case, fusion of the ventral and dorsal layers failed to take place along the tænia omentalis of the transverse colon The transverse colon was therefore lower in the abdominal cavity than normal and the loops of small intestine shifted down into the pelvis so that the mesentery formed a fold across the duodenum

The treatment for such cases is duodenojejunos

tomy (Barker Stavely operation)

A displaced cacum is not apt to exert sufficient tension on the mesentery of the small intestine to produce an obstruction of the duodenum, but it does so on the mesocolon if the right half of the colon has a mesocolon and is freely movable This type of an occlusion is termed "arteriomesocolic" For its relief, Bloodgood recommends resection of the cæcum or the right colon, and Wilkie a colonexy

HERMAN H HUBER, M D

Draper J W The Pathogenic Colon Ann Surg

In adolescents who suddenly develop epilepsy or a functional psychosis a toxic form of cerebral cellular disorder is to be found. Recent study has shown that many epileptic and psychotic patients are suffering from a hereditary chromic intestinal invalidism giving rise to intra abdominal defects of the colon and omentum.

Slight congenital cerebral abnormalities may cause symptoms only when they are complicated by the towns of focal infection, the sources of which are demonstrable and will yield to surgical and

medical therapeusis

The relief of neuromental symptoms in a large

Dukes C Simple Tumors of the Large Intestine and Their Relation to Cancer Brill J Surg 1926 xiii 720

Dukes attacks the problem of the relationship of simple tumors to cancer of the large intestine from three points of view (1) the development and structure of the simple adenoma (2) the association of simple tumors with malignant tumors (3) the intimate structure of early adenocarcinomata of the rectum and colon

Four stages are distinguished in the development of adenomat. The first is epithelial by perplasis with deepening of the crypts and lengthening of the vill, the second bending of the musculars mutosse branching of the original will the formation of new will and impairment of marginal growth the third increased bending of the muscularis mucosse and further branching of the will leading to an increase in the secreting area and the fourth the formation of a stall, and the development of similar secondary growths leading almost inevitably to the formation of cystic space.

Dukes finds adenomata in 75 per cent of all cases of cancer of the rectum and sigmoud. He has found them within a radius of 3 in of the cancer and believes that if a search were made for them further from the cancer they would be discovered even more frequently. He concludes that well developed adenomata are present in the portion of bowel between the cacum and sigmoid in only about to per cent of the population whereas small tumors are almost invariably present in the mucosa sur rounding a cancer of the rectum or sigmoid.

The structure of adenomatata associated with cancer is essentially similar to that of simple adenomata. The tumors consist of a central stroma of connective tissue with diated blood vessels and are covered by a thick layer of columnar epithelial cells. The author is of the opinion that the simple tumors precede the formation of the cancer

The structure of early adenocarcinomata resembles that of adenomata Dukes believes that the malignant changes occur in the cells between the

adjacent tumors which because of their position become restricted in growth and irritated. He gives the stages in the development of carcinoma of the rectum as (1) spotty epithelial proliferation in an extensive area of mucosa, (2) the formation in this area of a group of adenomata (3) indiding of the mucosa between the adenomata and (4) irritation of the cells between the primary and secondary tumors with subsequent malignant degeneration.

LIVER, GALL BLADDER PANCREAS AND SPLEEN

McCoy C C and Graham R S Cholecystog raphy in Operative Cases J Am M Ass 1926 lxxxv1 1899

In the series of twenty six cases reviewed in this article sodium tetra iodophenolphthalein was given intravenously and a roentgenographic examination

was made twelve hours later

In five cases a diagnosis of cholelithiasis was made with cholecystography and stones were found at operation Of thirteen cases in which a diagnosis of biliary tract disease was made gross evidence of disease was found. While in two of these cases there was no evidence of disease at operation microscopic examination of the removed gall blad der revealed a mild chronic cholecystitis in one and cholangeitis in the other Of eight cases in which the gall bladder was believed to be normal it appeared normal at operation in seven and was therefore not The cholecystographic findings were accordingly confirmed in 66 per cent of the cases Of 212 cases collected from the literature the chole cystographic diagnosis following the intravenous injection of the dye was confirmed in or per cent HERMAN H HURER M D

Graham E A Cole W II Copher G H and Moore S Cholecystography The Use of Phenoltetra Iodophthalein J Am M Ass 1926 lxxxv1 1899

Phenoletra indophthalem is superior to its isome tetra indophenophthalem. It produces shadows with smaller doses (0 o4 gm per kilo in 30 e cm of distilled water) it is followed by fewer and less severe toxic reactions it is associated with less danger of thrombophicbits and it is more readily excreted through the liver I our hours after the administration of the drug excellent gall bladder shadows are obtained. Oral administration gives less accurate findings

Bazin A T Infections of the Biliary Tract
A Stock Taking of Diagnosis and Treatment
Canadian W Ass J 1926 xvi 632

The recognition of early mild symptoms of bilary tract disease is essential for the prevention of acute crises. The gall bladder is the first part of the bilary tract to be attacked by an infection the extrahepatic and intrahepatic ducts being involved secondarily The channels of infection to the gall bladder are the systemic circulation, the lymph dramage the portal circulation, and the ducts from the duodenum Acute cholecystitis may attack a normal gall bladder, but is usually superimposed upon a chronic cholecystitis

The symptoms of biliary tract disease often date from an infectious illness such as typhoid fever or influenza or from a pregnancy complicated by pellits. They are those of chronic dyspepsia. In addition to discomfort in the epigastrum and right hypochondrium there may be pain referred to the back or the scapular region on either side. In some cases there may be only a sore feeling, in the epigastrum or flatulent distention which is reheved by the eructation of gas.

The attacks occur after the ingestion of food The distress is greater after a heavy meal or dietary indiscretions. There are no periods of relief as in gastric ulcer, and the distress is not relieved by the recumbent position as is that caused by gastroptosis.

Of the physical signs the most valuable are Murphy's sign and Mayo Robson's point. The Graham Cole Nray test is of value in many cases but not in all. Bile is to be found in the urne only for a few days, hence an icteroid sclera is an early sign. The van den Bergh test for bilirubin in the blood is of value, but this also is positive for only a short time. In 75 per cent of the cases there is a hyperglycamia due to concurrent pancreatic damage.

Early operation prevents obstruction of the common duct, septic cholangeitis, and pancreatitis. The author's rules for treatment are the following

r Remove all other foci of infection

2 In infections limited to the gall bladder cholecystectomy without drainage should be done

3 When the infection is more diffuse, cholecys tectomy with drainage of the common duct should be done

4 If the symptoms point to gall bladder disease cholecystectomy should be done even if the gall bladder appears normal Larl G Garside M D

McMaster P D, and Elman R Studies on Urobilin Physiology and Pathology VI The Relation of Biliary Infections to the Genesis and Excretion of Urobilin J Exper Med, 1926 xlu., 753

To determine whether during biliary obstruction or upon injury to the liver the urobilia formed in an infected biliary tract can be absorbed therefrom and lead to the appearance of the pigment in the urine, the authors carried out experiments in which they infected intubated and previously sterile duct systems with urobilin producing bacteria. The findings showed that after infection of the biliary tract urobilinums is produced following biliary obstruction and following liver damage also that marked urobilinums fails to appear when chronic infection has caused pathological changes in the rall bildder.

McMaster and Elman designate such urobin nura an 'cholanguic,' to distinguish it from the urobinuma having its origin in pigment absorbed from the intestine. The fact that cholanguic urobilinum is more pronounced in animals with a normal gall bladder leads the authors to conclude that there is an active absorption of urobin from the normal gall bladder and the bile ducts and that there is no evidence to indicate that urobins formed by the action of the liver parench ma

Collinson G A and Fowweather F S An Explanation of the Two Forms of Bilirubin Demonstrated by the van den Bergh Reaction

Brit M J 1026 1 1081

Van den Bergh assumed that there are two forms of bihrubm the one reacting directly with the sul phamilic acid reagent and present typically in cases of obstructive jaundice, and the other reacting to an appreciable extent only in the presence of alcohol and after precipitation of protein and present typically in cases of hæmoly ite jaundice

The authors attempted to ascertain the chemical mechanism underlying these different reactions since such knowledge would help in explaining the production of jaundice. The modern theory of jaundice assumes that bilirubin of the hamoly tie form is produced by the cells of the reticulo endo thelial system in the liver and in its passage through the liver cells to the bile capillaries becomes converted to the obstructive form in which it is found in the bile.

The experimental evidence produced by the authors is very complet and cannot be described briefly. They conclude from it that the chemical nature of bilirubin lends support to the modern theory of jaundice. Cyril JGLASPEL M.D.

Lecene P and Moulonguet P Remarks on the Types of Mild Cholecystriis Termed Straw berry Gall Bladder (Remarques sur les formes de cholecystite lègère appellees vesicule fraise') Presse méd Par 1926 txxx 49

Grossly the so called strawberry gall bladder" is characterized by the presence of small yellow bodies about the size of a pinhead which project from the mucosa into the lumen. Microscopically these bodies are submucous accumulations of polyhedral cells laden with lipoid material. The lipoid material cells laden with lipoid material. The lipoid material cells laden with lipoid material. The lipoid material cells laden with lipoid material by lower than that of cholesterol. Its color reactions and some of its optical properties indicate that it is a cholesterol omplex probably a cholesterol ester Schaefer has shown that the lipoid content of a strawberry gall bladder is twice that of the normal organ.

The significance of these small cell masses has been disputed. It has been suggested that they may serve as nuclei for the formation of stones, but the stages of such a transition have never been clearly demonstrated. Policardattributed them to excessive absorption of lipoids by the gall bladder epithelium probably as the result of stass. Because of their frequent association with a frank infectious chole cystits with or without stones the authors believe they develop as a result of infection. The lipoid filled cells are regarded as leucocytes which have under gone fatty degenerative changes. Similar cells have been observed in the muscularis and serosa as well as beneath the muscus. Fatty deposits may also be seen at times within the epithelial cells themselves.

Further evidence in support of the infectious origin of these lessons is afforded by the demonstration of similar granules in the mucosa of chronically inflamed fallopian tubes. Clinical evidences of infection are often demonstrable and anntomical changes such as thickning of the subscribed as the result of the deposit of fat inflammation of the lymph nodes about the hilum of the liver infiltration of the submucosa by inflammatory cells and adenoma like hyperplassa of the mucosa are frequently present. Usually the bile itself is sterile, probably because of its bactericadal power.

If a strawberry gall bladder is associated with the presence of stones cholecystectomy is indicated When it is uncomplicated the nuthors perform a cholecystostomy as they believe the condition is essentially a wide spread bilary infection requiring chefty adequate drainage

LAWRENCE JACQUES M D

Judd E S Cholecystitis with Associated Problems Illinois M J 1926 xhx 460

Disease of the gall bladder is not only recognized more often than formerly but is more common. The cause of cholecystitis is being investigated author reports a series of 100 cases in which the gall bladder was studied bacteriologically immediately after its excision. The findings were positive in only twenty nine although contamination was inevitable at times. Five of twenty two specimens of strawberry gall bladder gave positive cultures The bile was bacteriologically positive in seven of the roo cases Gall stones which were found in so per cent yielded positive cultures in five bacıllus typhosus and bacıllus paratyphosus were not encountered although there was a history of typhoid fever in twenty one cases. In the one case of cholesterosis with thick dark bile both the gall bladder and the bile were sterile

When the gall bladder appears normal at opera toon it is not always justifiable to conclude that the diagnosis was wrong Removal of the organ may dissipate the symptoms and prove that unrecog nizable disease is present. At times therefore the diagnosis must be made on the clinical manifesta tions alone dangerous as this practice is in principle. According to the authors experience removal of the gall bladder when the complaints are typical will bring relief even when no disease can be recognized in the viscus. Judd believes that the seat of the disease in such cases may be in the

pancreas or liver and that cholecystectomy produces a cure indirectly. If the symptoms are of the chronic dispeptic type the chance of cure by cholecystotomy is not great

Judd emphasizes the importance of good exposure and explains his method of obtaining it. He discusses ligation drainage and the care necessitated by the presence of jaundice

Miller J L The Medical Aspects of Gall Bladder Disease Illinois M J 1926 xlix 451 Herbst W P Some Phases of Billiary Surgery Illinois W J 1926 xlix 455

MILLER emphasizes the fact that the treatment of gall bladder disease is surgical but the diagnosis must usually be made by the internat in co operation with the laboratory worker and the roentgenologist. The diagnosis is not easy Careful history taking and questioning are necessary. It must be berne in mind that a syndrome resembling that of gall bladder disease may be caused by conditions such as syphilis of the liver spastic colitis intercostal neurities due to osteo arthritis of the spine, appendicutes. Drettly criss and central pneumonia

of the right lower lobe

If lues is excluded periodical attacks of charac teristic pain followed by jaundice and localized tenderness warrant the conclusion that surgery is indicated In atypical cases the van den Bergh test is of great aid. Severe epigastric pain without fever but with a leucocytosis is suggestive of gall bladder disease When the pain passes through to the right scapula or laterally around the right tho rax gall bladder involvement is suggested The occurrence of pain after jolting suggests biliary or renal disease. It is the milder type of gall bladder disease without severe pain that is the most difficult to diagnose. In this type gastric symptoms predom mate and skill is necessary to distinguish them from digestive pains. It is well to bear in mind that in these cases periodicity of discomfort and failure to respond to ulcer management are rather common characteristics The gastric analysis rarely throws more light on the nature of the con-The roentgenologist's findings should be carefully weighed but the diagnosis should not be based upon his report alone. The history of the disease is more important

In Miller's opinion the only treatment is surgical

Medical therapy is of no avail

HERNST discusses certain phases of bihary disease and surgery. After reviewing briefly the physiology of the liver and gall bladder and the formation of bilirubin, he proceeds to classify jaunidee into three types—the harmolytic the obstructive and a type caused by mability of the liver periachly ma to secrete and excrete because of acute infectious and pathological impairment of the liver cells

He then reviews the clinical tests in detail the levilose the van den Bergh, the Fouchet the Rosenthal the Muhlengracht the glycuronic acid the blood urea and the blood cholesterol tests and cholecystography Those of the most value are the Rosenthal, the van den Bergh and the blood urea

tests and cholecy stography

The van den Bergh test serves to differentiate between hæmolytic jaundice and the two other types. When the daily amount of serum bilirubin is noted, an increase in the amount of pigment indicates an increasing surgical risk. When the findings of the van den Bergh test remain above normal in cases of drainage of the common duct the drainage should not be discontinued.

The Rosenthal test is of most importance in sus-

pected liver disease without jaundice

Cholecystography is 100 per cent accurate only in cholelithiasis. It should be used primarily in cases in which a reasonably satisfactory clinical

diagnosis is impossible

In cases of gall stones, surgery is almost always indicated unless the patient is a poor risk. In cholecustitis without stones, it is indicated if there is no response to medical treatment within a year. The hazards of a longer delay are the possible development of pancreatitis hepatitis, bilary cirrho sis, an acute surgical condition, an ulcer, or myo carditis. Jaundice always increases the surgical risk but as the result of the use of the van den Bergh test, calcium therapy transfusions and the administration of glucose, it has lost many of its dangers.

In cirrhosis of the liver with ascites, the intra venous or intramuscular injection of doses of r or 2 c cm of a 10 per cent solution of novasurol at intervals of three or four days and the administration of ammonium chloride in capsules to the amount of 10 gm daily have been of great benefit.

Muller G P Certain Experiences with Gall Bladder Surgery Med J & Rec 1926 cxxxxx 446

Gall bladder disease is most common in fat women who have borne children. Of the author's 128 patients with disease of the gall bladder, 82 per cent were women. The average age at which the patients came to operation was 43 years. In most cases nearly twenty years elapse between the onset of the condition and the operation. During this time the patient suffers from so-called nervous indigestion, flatulent dispepsia and intestinal intoxication.

In the diagnosis of pencholecy site adhesions, the A ray belps materiall. High fixation of the duo denum, fixation of the hepatic flevure, and displace ment of the pylorus to the right are significant Moore has reported a correct diagnosis of gall bladder disease by cholecy stography in 92 5 per cent of cases Gastric analyses have not given much in formation in gall bladder disease. Liver function tests are of value as indicating the working of the extra hepatic passages

In the author's cases of acute suppurative chole cystitis (nineteen), the symptoms were those of

acute inflammation, such as tenderness, rigidity, fever and leucocytosis. The gall bladder was usually found swollen and intensely congested.

The author discusses the advisability of imme diate operation in these cases and whether it is better surgery to do a cholecystostomy under local anaesthesia than a more radical operation under inhalation anaesthesia. In the cases of fat patients, local anaesthesia has been found difficult when a cholecystectomy is to be performed, and the anaesthetic gases without some ether are unsatis factory. When only cholecyste tomy is done a second operation may be necessary, but may be deferred until the patient is less critically ill

In the group of cases of acute cholecystitis with common duct obstruction, the mortality was 40 per cent Cholecystectomy was performed in every

instance

Of the author's seventy-eight cases of chronic cholecystits twenty four were cases of sample cholecystits and fifty four were cases of calculous cholecystits. Cholecystectomy was performed seventy three times and cholecystostomy five times without a death. In cases of non calculous disease childen cystectomy is indicated. In cases with involvement of the pancreas internal drainage (cholecystogastrostomy) is better than external drainage, and if the gall bladder is extensively diseased it is probable that the cystic duct is occluded.

In the author's cases of chronic cholecystitis with common duct occlusion the mortality was 10 2 per cent In this type of case, pre-operative prep aration is most important Water glucose calcium chloride and digitals should be given Ether

anæsthesia is contra indicated

The end results in the cases reviewed were as

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HOWARD A MCKNIGHT M D

Gibson C L Aids to Cholecystectomy in Surg 1926 lxxxii 618

Gibson enumerates the following aids to chole ystectomy

r Good exposure by an incision that will allow direct drainage if it is necessary and is least apt to favor herma

2 Shelling out of the gall bladder from its peri toneal coat so that at no point will the surface or substance of the liver be involved

3 Sealing of the cystic duct by peritoneal blockade

4 Closure of the wound without drainage in suitable cases to eliminate postoperative adhesions or render them minimal

5 Careful hæmostasis particularly with regard to the cystic artery

The incision the method of effecting harmostasis the removal of the gall bladder from above or below and other steps in the operation are discussed in more detail. In the author's cases in which closure was effected without drainage convalescence was rapid and comfortable and the operation has never been followed by hernia.

EMIL C ROBITSHER M D

St John F B The Late Result of a Biliary Fistula with Implantation of the Fistulous Tract into the Stomach Ann Surg 1926 Ivxxii 855

The author reports a case in which a biliary fastula followed cholery stertomy for an acute exacerbation of chronic cholerystitis. All of the hile drained through the fistula for eighty six days. At a second operation the distal portion of the sinus tract was carefully dissected from the surrounding tissues and the tubular structure thus obtained implanted into the prepylone portion of the stowned. Today tenty-one months after the operation the patient is free from symptoms and jaundice and is able to eat an unrestricted det. Eur. G Casses M D

Hale K A Study of the Accessory Pancreas 1nn Surg 1926 lxxxiii 774

The author reviews the literature on the accessors pancreas and reports a case

An accessory panereas is most frequently located in the wall of the stomach duodenum or jejunum where it is probably developed by the migration of a primordial panereatic cell into the dorsal meso gastrum

An aberrant pancreas is subject to many patho logical changes. Chief of these are chronic interstitial inflammation and acute pancreatitis.

In Hales case pyloric stenosis had been caused The patient a child age 6 weeks died following a Rammstedt operation Sections showed an accessory pancreas in the thickended pyloric wall. There was no evidence of ducts from the aberrant pain creas. Hale concludes that the hypertrophy found was due to irritation of the musculature by the pancreatic secretion Earls of Surging M D

Courboules Ruptures of the Pancreas in Abdom inal Injuries (A propos des ruptures du pancréas dan les traumatismes de l'abdomen) Lyon chir 1926 xxiii 91

Contisions or ruptures of the pancreas either alone or associated with other visceral lesions are not so unusual as was formerly believed judging from the number of cases reported in recent years. If the pancreas alone is injured there may be no special symptoms at the turn of the acudent and a diagnosis cannot be made until later when a post traumatic pseudocyst of the pancreas develops

In a case of football injury seen by the author there was at first only a slight contracture of the abdomen which was temporary and did not justify exploratory laparotomy. After several weeks rapid emacation and the development of a tumor led to operation and the discovery of a post traumatic cust of the pancreas. After the operation there was a pancreatic fistula

The author reports also a case of traumatic herma of the stomach with internal hamorrhage rupture of the pancreas and pancreatic fistula due to a fall In such cases a pseudocyst does not develop but aparcreatic fistula is formed at once The liquid which flows from the injured gland does not become encysted in the deep tissues as it is exacuated through the operative wound especially if drainage or a tampon for deep hamorrhage is necessary.

But whether the lesson is solitary or associated whether the original accident leads to immediate or to late operation the rupture of the pancreas will sooner or later be followed by the formation of a pancreatic fistula. In cases of pseudocyst in which marsupalazation is the only possible treatment the fistula will be secondary whereas in cases such as the authors second one it will be primary. In study of the function of the pancreas the composition of the pancreatic pure and the action of the junce when it is not activated by bile intestinal junce or bacteria. ADMERS of MORSIN M.D.

Capecchl E The Importance of the Spleen in Resistance to Infection as Indicated by a Gos of Severe Puerperal Sepsis in a Woman Who Ind Recently Been Splencetomized Colum importance della milas acid resistenza alle infection donna di recente splencetomizzata). Ciri olid 1076 XXVII 170

A great deal of experimental work has been done to determine whether the spleen exercises a protective function against infection but the results have been rather contradictory. The author reports a clinical case which seems to have a decided bearing on the subject.

The patient a 28 year-old woman with no family or personal history of any importance was suddenly taken with severe symptoms of internal hamorrhage Operation was performed for ruptured extra uterine pregnancy but a normal pregnancy in the third or fourth month was found and the tubes were nor The hæmorrhage had its origin in a rupture of the spleen The spleen was extirpated As there was no history of trauma it is probable that the spleen was undergoing regression from a lymphatic condition and therefore was ruptured easily by some slight exertion Five and a half months after the operation labor pains began but there was marked uterine inertia and it was necessary to deliver the child with forceps On the third day the lochia became feeted and the patient suffered from a high fever, chills, intense headache diarrhea and

vomiting The fever remained high and the uterus large and painful for twenty days. Thereafter the fever declined gradually. The patient was discharged well on the forty fourth day. A blood culture on the sixteenth day showed a pure culture of non hæmolytic, Gram positive streptococci in short chains. Two young dogs were injected intravenously with 2 c cm of a live culture of the strep tococci and two other dogs were injected after having been splenectomized. All four survived

The author concludes from this case and the results of the injections that the spleen is not essential to the defense against infection. Twenty days after the patient had completely recovered from the pureperal infection she had fever and pain in the left that fossa for fifteen days and a hard painful swelling of the left adnexs was found. A cure was obtained by medical treatment in about a month in spite of the absence of the spleen.

AUDREY G MORGAN M D

MISCELLANEOUS

De Martel, T The Contra Indications to Surgers, in Acute Abdominal Affections (Les contra indications chringicales dans les affections abdominates augus) Bull et mem Soc nat de chir 1926 lin 237

Operation should not be performed in the acutestage of abdomnal diseases. It is difficult to tell however, just when the acute inflammation is over. Some surgeons follow the rule of operating after the temperature has remained normal for fitteen days but this is not always correct. De Martel has found that a normal differential leuco cyte count is the most reliable guide. In a normal person the proportion of polynuclears is surprisingly constant. Even a slight polynucleosis means that an inflammation is still in the acute stage.

In several cases in which De Martel operated when the temperature had been normal for several weeks but a marked polynucleosis persisted the results were very serious whereas when the differ ential leucocyte count was normal at the time of operation the results were always good even when only a short time had elapsed since the decline of the fever. In cases with an abnormal differential count in which he opened the abdomen he found serious inflammation he therefore closed the abdomen without continuing the operation (appendectomy) and delayed its completion until the count became normal. At the second laparotomy he found the lessons healed.

Ryle J A Visceral Pain and Referred Pain Lancet 19 6 ccv 895

There have been two main theories with regard to visceral pain. According to the first which is based on the work of Lennander and has Mackenzie is its most victorius protagonist, pain is not felt in the viscera but is referred to the somatic tissues supplied by the segment of the cord which supplies

the viscera involved According to the second theory, which is accepted by Ross and Hurst and perhaps the majority of physicians, visceral disease may be accompanied by referred somatic pain, but the viscera themselves are capable of feeling pain when they are subjected to certain stimuli

Ryle endeavors to support the following hypotheses

- I That there is a true visceral pain felt by the viscus
- 2 That visceral pain is due to an abnormal in crease in the tension of the muscular element of the wall of the viscus, this increased tension resulting from contraction or the failure of the muscle fiber to relax adequately in the presence of increased intravisceral pressure.
- 3 That visceral pain occurring alone or dissociable from attendant somatic pains may be accurately localized by the patient
- 4 That though referred somatic pain and tender ness, e.g., viscerosensory reflexes and the associated visceromotor reflexes, may accompany a severe visceral crisis of mechanical origin, they more frequently express an inflammatory lesion of the viscus
- 5 That, when persistent they invariably express organic disease of the viscus of an inflammatory type

Except for the sensations of precordial fullness and retrosternal oppression experienced during violent effort or emotion the heart and aorta may be said to be insensitive under physiological conditions. In the case of the stomach we recognize the elements of appetite and hunger sensations, and the sensations of fullness or repletion. These have been clearly traced to the tonic and peristaltic activity of the stomach wall The work of Carlson and Hurst seems to indicate that they depend on the state of tension in the gastric muscle fiber. Of the appendix and gall bladder we are quite unaware in health. Of the intestine we are aware whenever there is local dis tention with flatus. The rectum clearly appreciates states of fullness at times of urgency amounting to pain and most of us will agree that its sensations are deeply and not superficially situated sensation of the desire to micturate is felt in the urethra and also in the bladder when the latter is over distended All of these physiological sensations are related to increasing pressure on the walls of the viscus and are relieved by evacuation Menstrual pains are felt locally but are frequently accompanied by a more superficial sacral pain. With regard to these it is worthy of note that during menstrua tion a state of congestion akin to the effects of inflammation is present in addition to increased muscle tension No equivalent congestion is present during the normal functional activity of other hollow vicera

Observations support the contention that if the hollow vicera are sensitive, it is not their serous or mucous coats but their muscular coats which appreciate sensations. Those who contend that the

viscera are insen itive seem to have paid too little regard to the fact that special organs respond only to special stimuli. Thus the eye appreciates light and not sound the skin appreciates touch tempera ture and traumatic pains all of which are physiologically es ential for it to appreciate. The skeletial muscles appreciate position and tension the strength of opposing forces and in states of extreme tension pain but they are not sensitive to cutting pricking or burning. There is no reason for the viscera to appreciate tactile or thermal stimuli but it syitally necessary for them to appreciate states of fullness or emptiness.

By analogy it seems reasonable to insist that the plain muscle of the hollow viscera is endowed with the same sensibility positive and negative as the skeletal muscles in other words that the visceral sense is mu cle sense. The sensations of fullness or emptiness are therefore parallel with the sensations of posture and tension in a limb Pain (whether in skeletal or plain muscle) results when tension is greatly increased. The one common factor present in all cases of visceral pain is an increase in intra visceral pressure and muscular tension. The reliev ing factor whether it be the passage of a gall stone in biliary colic the ingestion of food in hunger pain or the peripheral vasodilatation following the admin istration of amyl nitrite in angina pectoris is in variably a factor which reduces intravisceral pressure

Ordinary stomach ache and intestinal colic seem to

be felt internally Renal and bilinry colic seem to

be deep to the body wall In describing anginal pain the national places his clenched hand to the sternum as though to indicate a median or aortic origin for his pain and perhaps incidentally to suggest its griping character. He indicates cardiac pain by applying the flat of the hand to the ubmammary region. The pain of gastric ulcer 1 indicated with the tips of two or three fingers applied to the mid epigastric point or occasionally just to the left of this point the pain of duodenal ulcer by a similar demonstration fre quently just to the right of the midline. In renal colic the hand grasps the losn usually with the fingers over the back and the thumb in front as though to suggest that the pain 1 rather more po terior than anterior and desply situated in the region of the kidney. The localization of pain in disease of the gall bladder and appendix (when there is no confusion due to associated inflammation or gastric and intestinal disturbance) is remarkably accurate The position of a calculus impacted in the ureter may also be accurately shown when distraction by concurrent renal colic or other symptoms is not too influential. Intestinal pains are less ea ily localized because intestinal colic is not confined to one spot as is the case with biliary or renal colic Pams in the small intestine are usually felt around the navel and colonic pains between the navel and the symphysis pubis. However, when obstruction occurs at a more or less fixed point such as the hepatic splenic or sigmoid flexure the localization of intestinal pain is commonly precise

The reflected phenomena of visceral disease are best demonstrated in very severe visceral pain or inflammatory disease I xamples of the former are the arm pain in angina the subscapular pain of cholelithiasis and the testicular pain in ureteral Examples of the latter are the cutaneous hyperalgesia and muscular guarding found in appendicitis or in relation to a chronic gastric ulcer These reflected phenomena rarely accompany vis ceral disease of a functional kind they are generally associated with local organic changes In the majority of fatal cases of angina pectoris there is found some disease of the first part of the aorta or coronary vessels and we know that although the sensation of retrosternal oppression can be repro duced in health by vigorous exercise upon a frosty morning the arm pain is not so reproduced and since the vessels are capable of relaxation local distress is never agonizing. It is upon observations of this kind that we may base the conclusion that visceral pain expresses a perturbation of visceral function (which may or may not be due to local organic disease) while the somatic phenomena generally express a structural lesion of the wall of

Mackenzie has come to the conclusion that the only known stimulus that produces pain in tissues supplied only the autonomic nerves is contraction of muscle and increased tension

Cardiac pain is felt in the submammary zone and is sometimes accompanied by referred tenderness in the precordial area The arguments weigh heavily in favor of an aortic or coronary or at any rate an arterial origin for the anginal pain. In support of this hypothesis are (1) the sternal situation of the pain over the aorta or the base of the heart and not in the precordial area (2) its oc currence as an early symptom of syphilitic aortitis (3) its association with aortic but not with other valvular forms of disease and its association with thoracic aneurism (4) its absence in the majority of cases of myocardial disease and heart failure. (5) its propagation by actions which cause a rise in intra arterial pressure and its relief by vasodilatation (6) its not infrequent association with hyperpiesia before the development of cardiac failure (7) its pontaneous relief when the heart muscle fails so that an adequate pressure for the production of the pain is no longer maintained (8) its segmental reference which as Wenckebach has argued on the basis of Head's work does not correspond accurately to the segments supplying the heart and (q) its close resemblance to other forms of arterial pain

It seems reasonable to assume that angina pectoris is due to an increase in tension in the wall of the orta or coronary vessels or both depending not upon spasm but upon a failure of relaxation in the face of the increasing pressures and demands which accompany increased cardiac work. Recent observations have shown that stutis 'nginiosis' (or suite of the coronary increased cardiac work.

tained anginal pain) is due generally and perhaps always to thrombosis or embolism of the coronary arteries Morris H Kahn, M D

Fifield, L R, and Love, R J McN Subphrenic Abscess Bril J Surg, 1926 xiii 683

This study was based on seventy eight consecutive cases of subphrenic abscess. In discussing the anatomy, the authors describe the six subphrenic spaces where abscess is likely to occur the right and left extrapentioneal, and the right and left anterior and posterior intrapentional spaces. Abscesses are formed most commonly in the right posterior intra peritoneal (subhepatic) space

The usual etiological factors are appendictis, the perforation of a gastric or diodenal ulcer, hepatic suppuration, and suppuration in the biliary pas sages. The infection occurs through wounds, by the gravitation of exudate from peritonitis, by the hematogenous route, by direct extensions and by lymphatic spread. The most common infective organism is the bacillus coli communis.

The diagnosis is based upon the findings of physical examination of the abdomen and chest, roentgen ray examination, needle exploration, and the blood cell count. In the differential diagnosis, pylephlebits, empyema, liver abscess, perinephic infection, aortic aneurism, pancreatic cysts, and renal tumors must be considered.

renai tumois must be considerei

The prophylaxis consists in the adoption of Fowler's position (especially in appendicits with infection) and the establishment of efficient drainage in cases with a primary infective focus. The treatment consists in incision and posterior drainage. In order to prevent pleural infection and obtain dependent drainage, resection of a rib as low as possible should be done. Most commonly the tenth rib is resected.

Herman H Huber, M D

Herrick, F G Pyelography in the Diagnosis of Tumors of the Flank Ann Surg 1926, lxxxiii 634

The author discusses only flank masses of un usual origin or course. The differentiation of intra

pentoneal from retroperationeal masses, of extra renal (retroperationeal) from intrarenal masses, and of intrarenal masses by pyelography was based on the following factors

- r The position of the kidney the normal being with the pelvis opposite the first or second intervertebral spaces. Variations are explained by hyper mobility due to one of the known causes, displacement by a tumor, or traction by an inflammatory process.
- 2 Disturbance of the normal longitudinal renal axis It is accepted that this axis extends upward and backward at an angle of 15 degrees to the vertical
- 3 Disturbance of the normal anteroposterior axis or rotation of the kidney on its vessels as an axis
- 4 Distortion of one or more calyces This is caused most commonly by pressure on the kidney from an extrarenal mass. The entire pelvis and all of the calyces are present, but are elongated and distorted
 5. Absence of a part or all of one or more calyces.

This is brought about most commonly by an intra renal mass, an abscess or a tumor, by which a calyx is destroyed or obliterated so that the solution does not enter it

or enter

6 Fragmentation of the pelvis or calyces which constitutes a typical picture of tumor close to the true renal pelvis

The differentiation between an intrarenal and extrarenal tumor may be facilitated by placing a coin over the paloated mass before making the pyelogram. It is aided also by variations in the renal aux and a study of course of the ureter and its relation to the mass.

A tumor outside of the kidney is more likely to change the renal axis and distort the renal pelvis or calyces than an intrarenal tumor whereas a tumor within the kidney is more likely to obliterate or cause fragmentation of the calyces than an extrarenal tumor

Twelve cases are reported in detail

EMIL C ROBITSHEK M D

GYNECOLOGY

UTERUS

Bullard E. A. A Study of the End Results of Operation for Uterine Prolapse at the Woman's Hospital 1915 1925 im J Obst & Gynec 1926

Of the 361 cases of uterine prolapse reviewed by the author about 95 per cent were cured by vaginal plastic surgery

The vaginal plastic work combined with ligament shortening from above is satisfactory perhaps in cases of slight prolapse but undoubtedly the careful fascial reconstruction by way of the vagina was

responsible for the successful results

The majority of gynecologists of today have long cased to attempt to cure descent of the uterus by any form of suspension or fixation by the abdominal route. The sine qua non of the operative treatment of prolapse is careful reconstruction of the various planes of the pelvic fascia that have become attenuated overstretched or toru.

In none of the cases reviewed by Bullard was the Watkins operation followed by enterocele but blad der symptoms occurred in a considerable number of

them
The Mayo operation was extremely satisfactory except that it was followed occasionally by an

The vaginal hysterectomy by Bissell's technique was most satisfactory but unless this operation is perfectly done and perhaps even then it may be followed occasionally by enterocele

In the discussion of this report Studiotrons said that ever type of operation fails in a certain per centage of cases. An operation fails usually because it is not adapted to the requirements of the particular case in which it is performed. This means that the crase was not properly studied with regard to the caustare factors or the condition to be corrected.

The Watkins operation has a distinct indication in a certain type of case—a case in which haste is possibly indicated such as that of an elderly woman with prolapse—but for a successful result there must be very little prolapse of the posterior segment the sacro uternic ligaments must still be holding. When an enterocele follows the Watkins procedure the operation was poorly performed

WARD stated that Bullard's report emphasizes the importance of an efficient follow up system and full records

HALSTED said that the third most common symp tom in cases of prolapse is incontinence of urine and that at operation on these cases special effort should be made to cure the incontinence

E L CORNELL M D

As hner B Conservative and Operative Treat ment of Uterine Hæmorrhage (Konservative und operative Therapie der Gebermutterblutun gen) Bien med Wichnicht 1926 (twi 188

The author states that like roentgen or radum castration the extirpation or supravaginal amputation of the uterus with or without conservation of the ovarean origin may have very severe after-effects. These sequelve which are manifestations of an automoracian or retention toucous are caused by the artificially produced menopause since besides the internal secretion of the ovaries the exercitor function of the uterus is of considerable importance for the general will being of the female

They include obesity plethora metabolic disturbances a tendency toward acute and chronic inflammations cardiac and vascular phenom nanervous and mental disturbances and diseases of the skeletil and muscle systems the special sense organs the skin the endocrine glands and the viscera

Aschner believes that the indications for the treatment of harmorhages should be revised. For harmorhages due to myomata surgical intervention should be as conservative as possible only enuclea tion or resection with the preservation of normal menstruation comes up for consideration. In harmor thages of ovarian origin the cause is often a chronic hyperamia of the pelive original due to atomy of the stomach chronic constipation or a sedentary life in some cases however these harmorhages may result from general plethora cardiac decompensation or disturbances of metabolism and internal secretion or may be caused by towns particularly metabolic waste products.

By the proper use of venesection hydrotheraps cathariss and variou medicaments the author has been able to avoid radical operation or roentgen castration in cases of hamorrhages of pub try metropythia hamorrhagic and the menopause

VOV WEINZIERL (C)

Ferracciu D The Experimental Production of Fudometriomata (Sulla produzione sperimentale di endometriomi) Kie ilal di ginec 19 6 iv 35

Recently there have been numerous discussions on the subject of certain cystic structures of the female gental tract which contain blood or blood pigment and are lined with an epithelium presenting the same histological picture as that of the endometrium

At first these new growths were thought to be due to embryonic inclusions or metaplasia of epithe lium but Sampson came to the conclusion that they are caused by the autotransplantation of epithelial cells or islands of mucous membrane through the tube into the peritoneal cavity where they become implanted and buried in the tissues near the mouth of the tube or on the ovary, undergo cystic degenera tion, and participate in menstruation This hypoth esis would explain the chocolate colored or tarry contents of the cysts Sampson believes also that the cysts may burst during a menstrual period and pour their contents, consisting of blood and ex foliated epithelium, into the peritoneal cavity, giving rise to new disseminations in the pouch of Douglas The epithelial lining of these cysts reacts histologically to menstruation pregnancy, and the menopause in the same way as the mucous membrane of the interus

With a view to determining whether Sampson's theory is correct the author performed experiments on dogs and rabbits. In a first series of experiments he made an incision in the body of the uterus, scraped the mucosa from the inner surface of the organ with the tip of a knife blade, divided it into minute fragments, and scattered them over the internal genital organs and the abdominal cavity In a second series he removed the embryos from pregnant dogs and scattered the fragments of the decidua in the pelvis and abdomen. In a third series he resected a part of a horn of the uterus, cut it into fine bits with the scissors and scattered the bits on the pelvic organs and in the peritoneal

The first two series of experiments were negative, but in the third series cysts of various sizes were formed in a short time. In some cases the cysts were implanted on the abdominal organs and in others were scattered over the parietal peritoneum. Only one cyst was formed on an ovary, but in dogs and rabbits the ovaries are high up in the abdominal cavity beside the vertebral column and it would be difficult for the fragments to reach them if they were not placed there The internal walls of these cysts presented an epithelium very similar to that of the uterine mucosa AUDREY (MORGAN M D

Proust, R., Mallet L. and Colleg R. Cancer of the Cervix Treated with Radium at a Distance (Cancer du col de l'utérus traite par la curie thérapie a distance a foyers localisés) Bull et men Soc nat de chir 1926 lii 84

The vaginal application of radium in the treat ment of cancer of the cervix gives excellent results but is insufficient against the spread of the disease by way of the broad ligaments. Several years ago the authors recommended the application of radium at the base of the broad ligaments by laparotomy but they have now abandoned this method in favor of radiotherapy at a distance

As surface applications of radium of sufficient penetration caused injury to the skin the attempt was made to increase the depth action by bringing the radium about 12 cm from the skin masses of 50 mgm of radium each were used and protected by lead sheets so that the skin area uradiated by each would not be affected by the two

others With this protection and by cross firing, the tissues at a depth of 10 cm received 60 per cent of the dose received by the skin at the portal of entrance

The authors report the case of a 60 year old woman who entered the hospital with an inoperable cancer of the cervix which had spread into the left broad ligament The patient had had hæmorrhages and had passed clots At the time of her admission she had a foul smelling discharge but no pain. She had not lost weight and her general condition was good The diagnosis was confirmed by biopsy

Between the skin and the radium were placed a layer of wax 1 cm thick and a layer of gauze 1 cm The three to mgm sources of radium were placed 8 cm from the skin on August 14, 1025. and left on until September 15 There was no difficulty and no local reaction although the radium remained in place for twenty two of the twenty four hours of each day At examination on October 25 the cervix was still slightly fixed in the cul de sac but the infiltration in the broad ligament was gone and the body of the uterus was mobile. On the surface of the abdominal skin two of the radiated zones were very apparent. Around the periphery of the central and right ports of entrance there was some central desquamation and nigmentation The left port was much less apparent The specu lum revealed slight ulceration of the lower cervical ho A vaginal application of radium was then made

When the patient was examined in January, 1926, she was found to be in good condition. The cul de sac was normal, the cervix small, and the fundus of the vagina slightly retracted. When the cervix was examined with the speculum it appeared to be completely cicatrized KELLOGG SPEED M D

MISCELLANEOUS

Noyes I H Pelvic Inflammation in Women Boston II & S J to 6 every 1025 Champlin J Jr The Use of Milk Injections in Pelvic Inflammation Boston II & S J 1926

Magill W H Thermotheraps in the Treatment of

Pelvic Inflammation Boston If & S J 1926 CXCIA 1031

Noves makes the generalization that pelvic inflammation of varying types is the cause of much semi invalidism, a large percentage of the cases of sterility, and a great many of the destructive pelvic operations done on women during the child bearing period He reports on 4,400 women admitted to the Rhode Island Hospital Providence in the years 19 0 to 19-5 820 (18 6 per cent) of whom had some form of pelvic inflammation. Five hundred and seventy eight were operated upon and 300 (55 3 per cent) were rendered sterile

The mucous membrane of the vagina contains few if any glands and is not easily infected. The cervical canal is a striking contrast with its race mose glands from which pathogenic organisms are difficult to eradicate In most cases of persistent upwentle vagnutis an infected cervix is probably the chronic focus. Probably no portion of the body is so frequently diseased as the cervix of the parous woman during the child bearing period. Persistent chronic infection of the cervix is almost certain to result in infection of the posterior parametrium and this may cause backache, dysmenorrhoza or men orrhama.

In the gential tract the gonococcus travels upward by direct progres son along mucous surfaces more reachly than by the blood stream or lymphatics. In this respect it differs from the streptococcus. The endometrium seems more or less immune to direct attack by the gonococcus. In the fallopian tubes however the gonococcus readily gains a foothold in the latter as well as the cervir the infection may be limited to the mucous liming but eventually in most cases the involvement becomes extensive

with serious damage to the tube wall

The author stresses the clinical significance rather than the pathological status of the guidancer rather fection. He discusses the frequency and the result of the pathological status of the guidancer and the result of the pathological status of the guidancer and the modern consistency of the pathological status of t

intrapelvic inflammation
Of another series of twelve pregnant patients all
of whom acquired their infection at the time of or
shortly after the establishment of pregnancy none
developed any marked pureperal sepsis

The bacteria most frequently concerned in puer peral sepsis are the streptococcus staphylococcus and colon bacillus The infection spreads chiefly

by way of the lymphatics or blood stream

For the treatment of pelvic inflammation CIMAPILY recommends the more general use of non specific protein therapy since animal experimenta ton and practical medicane have shown the stimu lating effect of such therapy on the body cells especially those weakened by infection. The most forceful efforts made to throw off infection are made by the affected cells themselves Under the stimulus of foreign proteins given subcutaneously intra muscularly or intravenously the protophism develops phagocytic properties the tonia so metalized by the firsh production of antibodies and ferments the local metabolism is intensified and the put is absorbed

The u e of milk in non specific protein therapy was originated by Schmidt of Iraque in 1916 In America it was inaugurated by Gellhorn of St. Louis

As a rule ordinary whole milk is used. It is prepared in various ways. Centrifugalized fat free milk causes less local irritation and less marked general and focal reactions. The methods and technique of the preparation of the milk vary with different men and clinics. Gellhorn uses milk stenlized by boiling or by pasteurization at 80 edgress. Of for one hour on air successive days. When ready for use 10 ccm of milk is placed in a sterile test tube and bouled for ten minutes in a water bath. Five cubic centimeters of milk are injected into the gluteal muscless and the injections are repeated at intervals of from three to five day. The amount impected is gradually increased to 10 cc cm by the third injection. The average number of injections.

The first injection is followed after from six to eight hours by a general reaction characterized by chills fever headache and general malaise

Cardiac decompensation diabetes, and alcoholism are contra indications to such therapy

The principal field of protein therapy in gyne cology is in the treatment of pelvic infections particularly those of gonorrheal origin Such infections of the bladder uterus and tubes respond

to it well, but those of the cervix and ovary do not Magill states that until the advent of diathermy which is the local production of heat by the pene tration of the tissues with an electrical current of high frequency, the treatment of pelvic infection with heat was limited practically to the vaginal douche Titus uses an anterior electrode over the abdomen and a posterior electrode over the sacral region The Corbus Chapman method with vaginal and rectal electrodes and a thermometer attach ment is an improved procedure for the localization and concentration of heat in the pelvic tissues By the use of this electrical agency heat can be gen erated to tolerance usually between 105 and 110 degrees F for medical purposes, or still higher for tis ue destruction in surgical diathermy

Corbus and O Connor state that gonococci are killed at a temperature between 104 and 108 degrees F in forty minutes. If the organisms are not killed it is probable that at least their virulence is

attenuate

According to Magill the local application of heat is contra indicated in acute pelvic inflammation particularly in postpartium and postabortion infections

CHARLES F DUBOL. M.D.

Pribram E The Cultural Method of Testing the Virulence of Bacteria from the Cerux and Vagina and Its Significance with Regard to Postoperative Morbidity and Mortality (Zur Lulturellen Virulensprucing von Cervx und Scheidenkeimen und ihre Redeutung füer die post operative Morbiditaet und Mortalitaet) Zentralb f Cwark 2 1926 1 137

As the result of the findings of virulence tests in 105 gynecological and obstetrical cases the author regards as incorrect the opinion held it Bumm's clinic that a positive reaction to Philipp's virulence test is in itself sufficient to contri indicate radical operation for an otherwise operable carcinoma and casarean section. He concludes, moreover, that it is impossible to predict the postoperative course from an increase in the bacteria in the blood within the first three or four hours after operation

He was unable to corroborate the statement of Philipp that hæmolytic streptococci which are very virulent in the nationt's blood will increase in the blood of another person in the same manner as in the patient's blood In Pribram's opinion, it is impossible positively to predict the clinical course of an infection from any laboratory test alone and the most that may be expected from laboratory tests are suggestions for treatment WOLFF (G)

Fuss E M The Virulence Test in Gynecology and Obstetrics (Die Virulenzprobe in der Gynackologie und Geburtshilfe) Zentralbl f Gynaek, 1926 1 140

From the use of the virulence test of Ruge and Philipp in 516 gynecological and obstetrical cases the author concludes that the demonstration of the presence of virulent bacteria by this test is a warn ing, since such virulent bacteria if given the oppor tunity to multiply, will probably cause a severe infection. The demonstration of the presence of avirulent bacteria by this test usually indicates the absence of severe infection

Occasionally, however, severe infections occur in association with apparently avirulent bacteria. In such cases the virulence test fails because the in fecting organisms are almost exclusively an erobes Therefore when the advisability of operation is to be determined from the findings of the virulence test. control tests for the presence of anærobes, especially gas formers, should be made WOLFF (G)

Moller W The Effect and Risks of Radium Treat ment in Benign Gynecological Complaints Acta obst et gynec Scand , 19 5 1v 2 2

It is thought that roentgen therapy arrests endo metrial bleeding by destroying the ovarian follicles and their derivatives Radium is believed to have a similar action but to have also a direct effect on the uterine mucosa. In a study of the uteri and ovaries of thirty two women treated with radium (twenty five of whom had a benign condition), the author found no evidence of any destructive change in the endometrium which might be ascribed to the He therefore concludes that the direct action of radium upon the uterus is negligible. Its action on the ovaries appeared to consist in an initial destruction and a reduction or arrest of the growth of the follicles In every case, however, a certain number of follicles remained unchanged Møller ascribes to the latter the return of the menses after radium treatment

In reducing the size of a fibroid which is the cause of bleeding, irradiation acts directly upon the tumor tissue and not through the ovaries This conclusion is supported by the findings in cases reported by Meyer and by those in fifty irradiated myomata examined by the author

Contra indications to the use of radium in cases of fibroids are the presence of infection and of submucous myomata Of ro3 women studied by the author, fifteen showed signs of infection following radium treatment and four showed severe infective sequelæ, the relation of which to the treatment was too obvious to be denied. The latter four required operation, and two of them died. Of seven patients with submucous myomata who were treated with radium, five developed signs of infection

A causal relationship between irradiation and the subsequent development of cancer has not been established, but the author has collected thirty cases from the literature and knows of six others in which cancer developed after radiotherapy. He therefore advises careful watching of cases in which irregular bleeding occurs following the amenorrhoea due to irradiation

Women who have been treated with radium should be strongly advised against becoming pregnant during the time immediately preceding the amen orrhoe as abortion is frequent in such cases and the offspring resulting from the fertilization of an ovum from an irradiated growing follicle may be inferior COODRICH C SCHAUPFLER M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

On Chorea Gravidarum and Its

Groené O

Etiology Acta obst et gynec Scand 19 5 1v 203 Until he saw the two cases reported in this article the author did not share the opinion that chorea gravidarum is a formidable condition. The first case was that of a 22 year-old primigravida in the seventh month of pregnancy who at the age of 17 years had had an attack of chorea minor The second case was that of a multipara also 22 vears of age who had never been affected with chorea In both cases the condition had a very acute onset and severe course with high fever and in both the pregnancy was interruped by vaginal casarean section. In one case there was an erup tion somewhat resembling that of measles The first patient died and the second recovered

Chorea gravidarum especially in its severe form is a rare disease. It is most common between the ages of 16 and 25 years. Its incidence is 43 per cent in the first three months of pregnancy 28 per cent in the second three months and I o per cent in the third three months. It has a marked tend

ency to recur in subsequent pregnancies

The author favors the theory that it is of an infectious nature. Its severity in pregnancy is due merely to the decrease in the patient's general resistance. Not infrequently there is a history of chorea minor The theory of infection is supported by the constant presence of a fever occasional sentic eruptions and effusions into synovial cavities

The mortality ranges from 17 to 30 per cent while that of chorea minor ranges from 2 to 5 per cent The prognosis is extremely unfavorable if from the beginning there has been a high temperature or a nsychotic element. In most cases the onset of labor has a favorable effect. In serious cases, labor should be induced. However the beneficial effect of interference is due not to cure of the disease but merely to restoration of the normal resistance

COOPRICT C SCHAUFFLER M D

Forssner H Sundell C and kiellin G Relationship Between Pregnancy and Tuber culosis 1cta bst et gynec Scand 1925 11 210

The harmful influence of pregnancy on tubercu losis has not yet been definitely established. Cases in which pregnancy has been terminated cannot be cited as evidence. It has been shown that flare ups occurring during pregnancy may be merely coincidental and that sudden unexplained flare ups independent of pregnancy may be benefited or arrested during and after pregnancy. Only cases in which pregnancy has been allowed to exert its supposed harmful effect to term can be used as evidence

The authors review the cases of 359 women with a definite diagnosis of tuberculosis who became pregnant and were kept under observation for a period of two years after delivery. They studied also a control series of 259 women of the same social status (working classes) and age (between 17 and 45 years) who were under observation for two years and were not pregnant either during this time or in the preceding year

According to Turban's classification the cases may be divided into three groups viz (1) those in which the condition is benefited or remains station ary, (2) those in which it becomes aggravated and (3) those in which it proves fatal From the author's findings it appears at first glance that the non pregnant women got along considerably better than the pregnant women but it is pointed out that when the former group were admitted to the hospital they had serious complaints referable to the lungs whereas many of those who were pregnant had no subjective symptoms and hence the latter group included a larger number of quiescent cas s

According to a corrected table which shows only the cases in which bacilli were demonstrated during the two year period of observation there was little or no difference in the progress of the two groups when the condition was mild (Furban's Type 1) but it is impossible to deny that pregnancy may exert a harmful influence on the advanced cases (Turban's Types 2 and 3) The findings in the early cases are of greater importance than those in the others because it is the mild cases in which the decision for or against intervention is most difficult In advanced cases intervention is almost never

The babies of the tuberculous mothers weighed about the same as those of non tuberculous women They were never born tuberculous Subsequent tuberculosis in such infants is acquired by contact after birth When the infants are taken from their mothers at birth their chance of avoiding the di case is about doubled

As a result of their study the authors advise against artificial interruption of the pregnancy

COODRICH C SCHAUFFLER M D

McIlroy A L Pulmonary Tuberculosis Com-plicated by Pregnancy Proc Poy Soc Med Lond 1026 xix Sect Obst & Gynre 61 McIlroy s statistics indicate that pregnancy is a

very serious complication of pulmonary tuberculosis I rimigravidæ are particularly susceptible to pul monary changes A definite lung tuberculosis is manifested by a slight cough or general malaise but this is often overlooked by the physician being ascribed to the pregnancy The idea that preg nancy improves the general condition of a tuber culous patient is fallacious, the ovum may act as a parasite draining the mother's vitality

There is considerable controversy regarding the end results of the induction of abortion. The advisability of this procedure depends upon the conditions in the particular case. Abortion should never be induced after the twentieth week of pregnancy. The best method is tent insertion.

When the child is carried to term and the mother's tuberculosis is slight and unaffected by nursing it is advisable to give the baby breast feedings for three months at least Babies born of tuberculous mothers are usually healthy and un affected by the mother's milk

It is essential that the mother be given constantly the care usually given for tuberculosis and that the baby be isolated to prevent its infection from the

mother

Further pregnancies should be avoided until two years after all symptoms have subsided Contra ceptives may be advised or temporary sterilization may be employed For the latter, the \times ray is preferable to operative measures

MAGNUS P URNES M D

Hofbauer J The Defensive Mechanism of the Parametrium During Pregnancy and Labor Bull Johns Hopkins Hosp Balt, 1926 xxxxiii 255

The author states that during pregnancy a phagocy tic tissue consisting of monocytes and clasmatocytes, makes its appearance in the base of the broad ligament and is intensified under the stress of prolonged labor and particularly by the presence of infection. The development of this tissue from resting wandering cells and adventitial cells can be demonstrated.

The appearance of this phagocytic tissue in the parametrium must be regarded as a biological reaction against infection. It favors the develop ment of local immunity in a region exposed to infection, and must be of service in doing away with debris and bacteria.

The mode of its production is not yet clear but it may have important implications with regard to auto infection and low cervical section

The development of lymphoid tissue within the walls of lymphatics in the parametrium is probably an additional defensive mechanism

ROLAND S CRON M D

Browne F J The Etiology of Accidental Hæm orrhage and Placental Infarction An Experimental Investigation Brit M J 1926 1 683

Accidental hæmorrhage has been generally as cribed to toxæmia of pregnancy but some obste tricians hold that the toxemia is due to the hæmor rhage

From a study of pregnant rabbits in which an acute nephritis was produced by injecting ovalates and certain bacteria, the author found that nephritis

is an important condition predisposing to hæmor rhage. The most important hæmorrhage producing bacteria seem to be the bacillus pyocyaneus and hacillus coli

Placental infarction and accidental hemorrhage are the end results of a toxemia produced by acute nephritis

When only organisms or their toxins were injected no hamorrhage occurred

An acute ovalate nephritis leads to murked urea retention but even when the urea concentration is at its highest the urine may be free from albumin Magnus P URNES M D

Fitzgibbon G A Revised Conception of Ante partum Accidental Hæmorrhage Proc Rov Soc Med Lond 19 6 vix Sect Obst and Gynæc 80

This article reports a study of cases of antepartum hæmorrhage seen during a period of six years at the

Rotunda Hospital, Dublin

From his findings, Fitzgibbon concludes that he cannot accept the common explanation that in the revealed type of hæmorrhage the uterine muscle is herithy and therefore resists distention by blood pouring into the uterine cavity while in the concealed type the muscle distends because it is diseased. He has found labor to be the common outcome of both types. The labor is usually rapid and the uterus acts perfectly both during and after delivery regardless of whether the hæmorrhage is revealed or concealed.

While Fitzgibbon accepts the view that accidental hemorrhage is due to toxemia, he discovered that although the other toxemic diseases occur twice as frequently in primipare as in multipare at least 85 per cent of the accidental hemorrhages studied

occurred in multiparæ

A closs relation was noted between the vitality of the fetus and the degree of albuminuma, but there was no relation between these and the type of the accidental hæmorrhage. In no case in which the uterus was tense or painful was a luving infant born on the other hand seventeen viable and six dead fetuses were delivered in twenty three cases in which the uterus was normal to palpation. Histo logical examination of the uteri showed separation of the muscle fibers, invasion of the interstitial tissue by blood, and intramuscular hemorrhages about the periphery of the small veins which was most pronounced in the outer layer of the uterus. There was no degeneration of the muscle fibers.

The author divides accidental haemorphages into two types (1) those due to a simple and truly accidental ablation of part of the placenta, and (2) those resulting from a toxemic condition due to a hematoma or apoplexy of the uterine wall which involves the placental site but did not originate there. Ninety per cent of the patients with the second type are multiparæ. In the author's opinion, the cause is chronic interstitual nephritis. When there is external bleeding the blood is always dark.

and never clots it is not whole blood but hæmor rhagic serum expressed from coagula retained in the uterus If the fetus is alive the patient is treated palliatively the symptoms being met as they appear In cases of persistent bleeding labor may be induced by puncture of the membranes It is then allowed to follow its own course. Plugging of the vagina has been completely abandoned

The author contrasts a series of confinements occurring in the period from 1911 to 1919 during which time plugging of the vagina was the principal treatment and hysterectomy or casarean section was occasionally substituted with a series of con finements occurring in the period from 1020 to 1925, during which time palliative measures were used

ALBERT W HOLMAN M D

Stander H J and Peckham C H A Classifica tion of the Toxemias of the Latter Half of Pregnancy Am J Obst & Gynec 1026 x1 583

From a study of 120 cases the authors suggest the following classification of the late toxemias of pregnancy (1) eclampsia (2) pre eclampsia, (3) chronic nephritis complicating pregnancy eclampsia superimposed upon nephritis and (5) the

low reserve kidney Eclamosia is a fairly definite entity. Its usual signs are convulsions and coma a relatively sudden marked increase in the blood pressure and the excretion of a large amount of albumin an the urine occurring during the last third of pregnancy par ticularly near term and followed by a complete return to normal at the end of the puerpetium Frequently the condition is associated also with an increase in the uric acid and sugar content of the blood a low carbon dioxide combining power and the presence of a large amount of ammonia in the urine All of these findings also disappear rapidly during the puerpersum Ophthalmoscopic examina tion may show detachment or ordema of the retina but never any sign of albuminum retinitis or the

other changes which are so frequently associated with nephritis As there is no evidence that eclampsia per se does any permanent damage to the kidneys it is not to be considered a contra indication to further pregnancies

I re eclampsia seems to be a definite entity but differs from eclampsia only in being unassociated with convulsions or come and of a milder character The author's studies seem to indicate that this is probably the rarest variety of toxemia of premancy its incidence not exceeding 5 per cent. If it becomes slightly worse the patient will develop convulsions unless the pregnancy is promptly terminated

Chronic nephritis complicating pregnancy is progressive Each subsequent pregnancy is asso-ciated with increasing renal impairment. The presence of chronic nephritis is evidenced by a high blood pressure persisting for two or three weeks after delivery. In such cases the diastolic level is of especial significance Patients with chronic nephritis

are usually discharged with a diastolic pressure well over 90 and in addition about 1/2 gm of albumin in

In cases of low reserve Lidney the last few months of pregnancy may show a moderate rise in the blood pressure usually about 150-90 and a relatively small amount of albumin in the utine ranging from a fraction of a gram to very slightly over 1 gm just before delivery. There may also be some cedema Very rarely, there is headache. By the end of the puerperium the blood pressure has returned to it normal level, the urine is free from albumin or contains only a faint trace of it and any redema that may have been present has disappeared. At no time are there any signs of a disturbance of the blood chemistry The nitrogen partition in the urine is normal Pregnancy does not injure this type of Lidney L L CORNELL M D

Miller C J Glucose and Insulin in the Toxemias of Pregnancy Am J Obst & Grace 1926 xt 763

For the last five years the author has been using glucose in the treatment of the toxemias of preg nancy, and for the last several months has been employing it with insulin. The success of the method has induced him to rely upon conservative measures in handling such cases. Routine measures are of course employed also

The proper administration of the glucose is of the utmost importance Proctoclysis is unreliable hypodermoclysis while better is not entirely satis factory The ideal method is intravenous infusion

In the ordinary case. Miller has been using a τ per cent solution of glucose and giving one unit of insulin for every 3 gm of glucose until from ten to fifteen units have been given. It is safe to repeat the procedure

At least forty cases of townia and twenty cases of eclampsia have been treated with excellent results by his modification of the Stroganoff method com bined with glucose Since the recent addition of insulin to the method the results have been even better E L CORNELL M D

Caudiere and Guérin Valmale Maternofetal Blood Reactions (Réactions sanguines maternofétales) Bull Soc d'obst et de gynée de Par 1926 EV 85

The authors report the results of a study of the reactions of the maternal and fetal blood which were made immediately after the birth. The fetal blood was taken from the umbilical cord and the maternal blood from a vein of the arm

Fifteen women and their infants were studied. In eleven cases there was a normal pregnancy terms nating in the normal delivery of a normal child. In nine cases the maternal serum was without effect on the fetal blood cells but in two it caused agelu tination. The fact is emphasized that in at least two cases there was no eclampsia albuminuria or other sign of a toxic condition. In ten cases the fetal serum was without effect on the maternal blood cells, but in one it caused agglutination. The latter was not one of the two cases in which the maternal serum agglutinated the fetal blood

Eclampsa occurred in three of the fifteen cases In one the maternal serum agglutinated the fetal blood, but the fetal blood did not agglutinate the maternal blood. In the two others neither serum caused agglutination

In one case the maternal serum caused marked agglutination of the fetal blood and the fetal serum caused marked agglutination of the maternal blood. This was the case of a patient suffering from pul

monary tuberculosis

The authors conclude from their observations that eclampsia is not due to the mixture of incompatible maternal and fetal blood

SALVATORE DI PALMA M D

Westphal, U Ten Years' Experience with Eclamp sia (Zehn Jahre Eklampsie) Zischr f Geburish u Gynack, 1020, lxxxiv, 626

In 22,800 deliveries occurring in the Hamburg Municipal Obstetrical Institute during the last ten years there were 189 cases of eclampia. One hundred and fifty four of the women with eclampias are primipaire. Thirteen were under zo years of age, seventy one between 26 and 35 years, and fifty three older than 30 years. In 138 cases the eclampias occurred during the last months of pregnancy, and in thirty two in the ninth month. Its earliest development was the fifth month. There was no apparent relationship between the weather and the eclampias. Neither was it possible to establish a greater number of attacks on davs with excessive moisture in the air than on clear days.

In the treatment of severe cases labor was induced as soon as possible but in cases of moderate seventy this was not done. When the dangerous symptoms persisted after venescetion (with infusion of sodium chloride or glucose solution) and the use of chloral hydrate or, as has been the practice in recent years, the use of the sodium salt of luminal and magnessum sulphate, the uterus was immedi

ately emptied

In sixty four cases delivery occurred spontaneous by In eighty one the forceps were used In fifteen, version and extraction were done In twenty six cases operative measures were necessary (trans peritoneal section in twenty three cases and cranotomy in two). The material mortality was 8 per cent. The fetal mortality was 20 per cent if all of the infants which died are included in the calculation, but if twelve infants whose body length was under 35 cm are excluded, it was only 14 per cent.

Rucker, M P The Treatment of Eclampsia Virginia M Month 1926 lin 97

The prophylaxis of eclampsia consists in careful observation of the patient, rest in bed, a carbo hydrate diet intestinal cleansing, and the forcing of fluids when the blood pressure rises. If there is no

improvement, interruption of the pregnancy should be considered

In a follow up study of cases of toxemia of preg nancy treated at the Johns Hopkins Hospital, Balti more, it was found that in toxic cases in which the cclampsia was prevented the incidence of kidney impairment was higher than in those with eclampsia. This was due to the fact that the cases without convulsions were carried along in the interests of the child and the toxic agents therefore acted for longer periods of time.

The best obstetrical opinion is rapidly going over to conservative treatment. In an attempt to classify clampsia clinically, the London Committee on Eclampsia of the Third British Congress of Obstetrics and Gynecology gave the following seven phenomena as signs of danger and any two as signifying a severe case coma, a pulse rate of over 200, a temperature above 103 degrees F, a number of convulsions greater than ten, a urine that boils solid, absence of cedema, and a blood pressure above 200 mm

A table of results obtained in various London hospitals gives the mean mortality of induction of labor and spontaneous delivery as 9 6 per cent. This is the lowest mortality of the listed modes of delivery

In the control of the convulsions morphine holds first place, the author favors large doses. He discusses also the administration of magnesium sulphate intravenously and intramuscularly. He advocates it to relieve convulsions and coma. The forcing of fluids and the administration of glucose are also important. Venesection is advocated especially for cases with pulmonary edema.

The after treatment consists in delivery as soon as the patient's condition warrants it, the tapering off of the treatment with bromides, chloral, and paralde hy de, and cautious additions to the diet Pregnancy may be permitted after three years if there is no evidence of permanent kidney impairment

Albert W Holman, M D

LABOR AND ITS COMPLICATIONS

Theobald G W A Plea for Drastic Reform in the Teaching of Midwifery Proc Roy Soc Med Lond 1926 xix Sect Obst and Gynze 04

Because of the high maternal mortality in England and Wales, the fact that a large number of women are permanently injured at partiurition, and the fact that over one third of the 3,000 maternal deaths per year in these countries are due to sepsis, the author advocates a marked change in the teaching of obstetrics to physicians and midwives

He has never known of fatal puerperal sepsis in a patient who had not been examined vaginally before delivery. Of thirty five primipare and sixty five multipare who were allowed to deliver themselves, the nurse standing at a distance from the bed (the "Garden of Eden" method), the perineum remained intact in eighteen of the former and sixty two of the latter.

In 200 other cases the nurse prevented the head from being born too precipitately (the modified Garden of Eden method) Eighty of the patients in this group were primipare and 120 were multipe are. The perineum remained intact in sixty through

of the former and 116 of the latter

Theobald suggests that nurses be forbidden to make vaginal examinations deliver breech presentations or control the fundus during the third stage. He, recommends that the modified Garden of Eden method of delivery be adopted that binders be aboilshed that free drainage and purgation b obtained during the puerperium and that the student living in the maternity hospital spend less time watching operations he will never perform and a great deal more time watching normal labor.

ALBERT W HOLMAN M D

Williams J W and Sun h C A Statistical Study of the Incudence and Treatment of Labor Complicated by Contracted Pelvis in the Obstetrical Service of the Johns Hopkins Hospital from 1896 to 1924 im J Obst & Grace 1020 to 125

From a review of the cases of contracted pelvis admitted to the obstetrical service of the Johns Hopkins Hospital from 1896 to 1924 the authors found that the usual types of contracted pelvis occur somewhat more than four times more frequently in negro women than in white women [37,31 and 8.66 per cent] while the incidence of funnel pelvis is the same in the white and colored races

In white women the generally contracted pelvis is closely followed in frequency by the typical funnel pelvis while in colored women the generally con tracted rachitic pelvis second in order of frequency. Rickets plays an extraordinarily important part in the genesis of pelvic abnormality in the negro woman and an almost negligible part in sust abnormalities in the white woman its incidence in the cases reviewed being 15:39 per cent in the colored woman and o 83 per cent in the white women. Under the influence of urbankle the negro tends to degenerate physically

With every additional half centimeter of contraction the colored woman has more spontaneous and fewer operative I-bors than the white woman. The simple flat pelvis is more serious to the white woman than the generally, reachitic pelvis is to the colored woman. The white woman has fewer spontaneous and many more operative labors than

the black woman

The generally contracted rachitic pelvis is to be regarded as a manifestation of degeneration. That the child is involved in the process is evident from its smaller size. White women with a flat pelvis usually show no signs of physical degeneration frequently exceed the average in height and weight and have babies of more than average size.

Breech presentations occur approximately twice as frequently and transverse presentations three times as frequently in cases of contracted pelvis as in cases of normal pelvis In the cases reviewed by the authors the gross maternal mortality was 0.97 per cent and the net maternal mortality 0.44 per cent. The net fetal mortality was 3.54 per cent.

During the twenty-eight years covered by this study, the treatment of labor complicated by con tracted pelvis has undergone many changes

During the first period (from 1806 to 1903) the mortality from cessrean section was still relatively high and the op ration was not resorted to until the patient had been subjected to the test of labor Version and extraction high forceps and late casarean section were the operations most common by employed with the result that both the fetal and the maternal mortality were relatively, high

In the second period (from 1005 to 50°6) pub totmy was introduced. While this procedure gave very satisfactory results so far as the mother was concerned the fetal mortality was high. It was therefore performed less and less frequently until finally its employment was limited to a single indication namely certain cases of funde plevius in young women in which it sometimes afforded a means not only of overcoming the dystone but also of converting the contracted pelvis into a pelvis that was essentially normal. Even with this restriction no pubotomy has been performed on the service since 100°6.

The last period (from 1910 to 1924) was charac terized chiefly by the greatest possible extension of prenatal care and a considerable increase in the em

ployment of casarean section

The normal weight of the newborn having been set at 3 350 gm it was found that the numb r of children which attained or exceeded that figure varied greatly in the two races as well as in the several types of pelvis. Practically one half of the white infants and two thrids of the colored infants fell below that limit a fact which explains why spontaneous labor is so much more frequent in the cases of colored women than in the cases of white women

In all cases of generally contracted pelvis the children were small whereas in those of the simple flat and typical funnel varieties they were relatively large

Women with simple flat and funnel pelves are often large and present no manifest signs of physical degeneration. Therefore in many instances the abnormality will escape recognition unless routine pelvimetry is done and the clinical signs of dis proportion are noted.

© L CORRELL M D

Guéniot and Suzor Rupture of the Uterus in a Case of Face Presentation Hysterectomy (Rupture uterine à la suite d'une pré entation de la face guérie par hystérictomie) Buil Soc d'obst et de gruée de Par 1926 xv 33

The patient whose case is reported in this article was a 22 year-old para ii She stitled that during her labor her obstetrician pressed upon her abdomen and asked her to bear down. Whenever he

exerted such pressure, she experienced a sharp pain in the left iliac fossa. The membranes were

ruptured artificially

Examination of the patient at the hospital revealed complete dilatation of the cervix, a face presentation, thinning out of the lower uterine segment with a contraction ring above the umbilicus, and cedema of the vulva The pulse was 92

Forceps having been applied to rotate the head the infant, which was dead, was delivered with ease. As a slight himmorrhage occurred, the placenta was delivered manually. Exploration of the uterus then revealed a rupture at the level of the inferior segment on the left side. A diagnosis of complete rupture was made.

Laparotomy disclosed an incomplete rupture of the anterior wall of the uterus on the left side and a very large subperitoneal hæmatoma. A subtotal hysterectomy was performed and a Mikulicz drain inserted. Immediately after the operation the urine contained blood, but the next day it was clear. The convalescence was febrile. The patient was discharged from the hospital on the twenty sixth day.

The cause of the rupture in this case was unusual as face presentation without rotation is rare. The site of the rupture—anterior and to the left—cor responded to the large occupital prominence of the bent head. The appearance of blood in the urne when the urnary bladder remains intact is a well-hown occurrence in such cases. The erroneous pre-operative diagnosis of complete rupture was due to the separation of the peritoneum from the uterus.

Salmarour di Palma, M. D.

Yule G W A Case of Casarean Section in Twin Pregnancy Edinburgh M J, 1926 xxxiii Edin burgh Obst Soc, 49

The author reports the case of a primigravida who entered the hospital about three weeks before term with albuminuma of pregnancy associated with vomiting and ordema. The albumin in the urine never fell below o 2 per cent, but the patient's general condition improved

After twelve hours of labor, chloroform anæs thesia was induced and forceps were applied, the head having made little advance. The patient then became deeply cyanosed and pulseless and died of gradual cardiac failure A child showing marked head moulding was extracted by cresarean section, but failed to respond to resuscitative measures. On the removal of the placenta, another child was felt When the second child was extracted the cord was pulsating feebly and slowly. After length, mouth to mouth insuffiction, it recovered and left the hospital ten days later in good condition.

By accurate record, ten minutes clapsed between the death of the mother and the extraction of the living child, a fact which demonstrates that some foctuses can bear apnosa for a much longer time than others. MacNUS P UNNES, M D

Stone E L Obstetrical Shock Am J Obst & Gynec 1926 vi 650

It is suggested that obstetrical shock may depend in part upon factors not ordinarily present or recognized in surgical shock

Routine observation of the blood pressure throughout the course of operation is recommended as the best prophylactic measure against shock

A clinical syndrome is described which suggests a clinical relationship between toxic states in pregnancy and liability to shock

Schickele has suggested that obstetrical shock may have a definite anatomical and pathological basis in certain organs similar to the lesions of eclampsia. Cases of clear cut nephritis described suggest that their pathological changes may simulate eclamptic lesions more closely than has been ordinarily supposed E L CORNELL, M D

MISCELLANEOUS

McCormick, C O Outlet Pelvimetry and Its Importance Am J Obst & Gynec 1926 x1 794

Because the great majority of obstetrical cases are cared for by the general practitioner, because the majority of medical school graduates become general practitioners and because contracted pelvic outlets are so common, the author believes that the progress of obstetrics cannot be advanced any more rapidly than by greatly emphasizing the important subject of outlet pelvimetry in textbooks and in practical obstetrical teaching

E L CORNELL, M D

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Pierl G A Method of Operation for Floating Kidney (Processo operatorio per la cura del rene mobile) 1rch ital di urol 1926 il 398

Pieri s operation for floating kidney consists es sentially in the use of a bridge of kidney capsule to suspend the kidney from the twelfth rib. It is per formed under ether anæsthesia. Israel's oblique incision is made. This extends from the angle between the twelfth rib and the sacrolumbar mass of muscles to the crest of the ilium which it touches at the midaxillary line The muscles having been sectioned the kidney bed is opened and the kidney lifted out. An incision is then made in the capsule along the convex margin of the kidney running from a point at the juncture of the upper and middle thirds to a little above the lower pole and another one is made parallel with it on the convex surface The bridge of capsule between the incisions is care fully dissected free of the Lidney cortex and a sterile cord attached to a Pean forceps is passed through it. The twelfth rib is then exposed and denuded of periosteum a fine forceps is passed through an incision made in the posterior surface of the periosteum the cord through the bridge of capsule is grasped and the loop of capsule is drawn up and pulled over the end of the rib. This brings the kidney into an almost normal position

The advantages of the operation are that its technique is simple it does not require any artificial means of fixation it causes minimal trauma to the kidney as only a small part of the rend surface is decapsulated and it fixes the kidney in an approx

imately normal position

The author has treated seven patients by this method. They are now free from pain and the kidney can be felt in the normal position. In his recent cases Pieri has made a notch in the rib for the loop of capsule to rest in to prevent its slipping off Lurgey G. Muscay M. D.

Pisani L Total Infarction of the Kidney from Traumatic Necrosis of the Vascular Pediuncle (Infarto totale del rene per trombo i traumatica del peduncolo va colare) 1rch ital di urol 1926 il 203

Total infarction of the kidney is rare and has very seldom been diagnosed. In a review of the literature Falci was able to find only twenty two cases. Two of these were treated by nephrectomy with recovery Frant reports the case of a man of 33 years who was thrown violently from a truck striaing on his right side and five months liter was admitted to the hospital with kidney symptoms. After a month a diagnosis of total infarction was made and the right

kidney was removed Uneventful recovery resulted The direct cause of infarction is sudden arrest of the circulation by occlusion of the artery or vein As these are terminal vessels their occlusion is followed by total necrosis The indirect cause is thrombosis or embolism. From the slow develop ment of the classical symptoms in his case Pisani concludes that a beginning markinal thrombosis was gradually transformed into an occluding thrombus As there was no hamaturia he believes the direct and immediate action of the trauma was exerted on the bed of the kidney rather than on the organ it self though there may have been sudden traction on or torsion of the p dic leat the time of the accident to explain Histological examination showed signs of organization of the thrombus which indicated

that it had been present for some time The symptoms in this case were classical although they developed slowly and although there were remis sions and exacerbations which are rather difficult to explain. Albumin and casts appeared in the urine early and about a month after the accident the patient was treated for nephritis. There was no history of hæmaturia and at the time of the patient s admission to the hospital there was no oliguria the average daily amount of urine being 1,500 c cm However the symptoms included dysuria pollakturia and burning pain which are not mentioned in the reports of other cases. There were also the general symptoms of chills and fever thirst nausea headache and prostration due to the ab orption of the products of the necrotic infarct Repeated functional examination of the right kidney showed

absolute arrest of its function

While many of these symptoms are common to other kidney diseases and many utologists hold that a diagnosis of infarction is impossible Pisani is of the opinion that the diagnosis may be based on the following triad of symptoms (r) continuous and suddents beginning viol nt prun localized in the kidney b d (2) absolute cessation of the secretory function of the kidney and (3) a marked general toxic infectious condition

If the infarction is unilateral nephrectomy should be performed at once The only cases in which recovery resulte were three in which the affected kidney was remo ed AUDREY G MINGRY M D

Helmholz II F and Bowers M R The Kidney
A Filter for acteria VII The Passage of
Bacillus Coli brough the Kidney with Acute
Straphylococci Lesions Im J Dis Child
1916 XTU 8,6

The frequency with which pyclitis occurs secondarily to infections in other parts of the body and the relationship of foculification to pyclitis makes it

seem probable that the invasion of the colon bacillus is often only secondary to some acute lesion of the kidney

In the experiments reported in this article the animals were injected intravenously with a twenty four hour culture of staphylococcus after a pre liminary catheterization to determine that the urine was sterile From two to eight days later, when the urine showed many staphylococci and large amounts of nus, a twenty four hour culture of colon bacillus was injected intravenously. The animals were then killed with chloroform at varying intervals and the urine was examined for colon bacilli The experi ments were conducted with and without diuresis The findings for periods up to twenty four hours seem to warrant the conclusion that the presence of acute staphylococcic lesions of the renal paren chyma and of the pelvis does not render the kidney permeable to the colon bacillus Individual experi ments in which the intervals were forty eight hours, seventy two hours, thirteen days, and fourteen days, were also negative

Nichols, B H Interpretation of the Pyelographic

Nichols, B. H. Interpretation of the Fyeographic Shadow Rediology 10 6 14 466
Essendrath D. N. and Arens, R. A. Variations in Normal Pyelograms. A Clinical Radiological Study Radiology 1926 vi. 474
Grant, O. Shadows in the Urinary Tract from a Practical Urological View. Radiology 1926 vi.

According to Nichols, the correct interpretation of the deviations from the normal presented by a pyelogram of a kidney pelvis and its calcyes is by far the most important factor in the pre-operative diagnosis of pathological conditions of the kidney Errors in interpretation are due most frequently to failure to recognize a congenital anomaly of the kidney pelvis or an attempt to interpret an incom pletely filled kidney pelvis

Numerous anomalies are described, ranging from the embryonic type of kidney pelvis to the pelvis with many calyces, from a pelvis with an elongated cephalic calyy to one in which the pelvis and ureter are completely divided as far as the bladder and from a slightly rotated pelvis to the almost completely inverted pelvis of the horseshoe kidney Variations of position are also given consideration with special reference to the information which may be obtained from the pyelogram

The findings in various pathological conditions such as hydronephrosis, empyema of the kidney, pyelonephritis, pyelitis, pyonephrosis and ti ber culosis of the kidney are described in detail Men tion is made of the fact that occasionally renal stones which are not recognizable by the ordinary kidney examination are rendered visible as negative shadows by pyelography If they are spherical they may simulate tumor

The pyelogram is of special importance in the differentiation of tumors of the kidney The findings which should be considered in its interpretation when a tumor is suspected are enlargement of one pole of the kidney with obliteration, compression, or distortion of the calvees in that area. The entire kidney may be invaded by the tumor, the pelvis being more or less obliterated and the calvees elongated and spindle shaped, with dilated ends Polycystic kidneys show characteristic cystic areas encroaching on the pelvis, and a solitary cyst if large, encroaches on the terminal calvees

EISENDRATH and ARENS describe various types of normal pyelograms and illustrate them with roentgenograms They are of importance as a standard with which to compare the pyelograms obtained in cases of inflammatory lesions and neo plasms of the kidney A brief description of the authors' technique in pyelography is given pyelograms utilized for the study reported were chiefly those of the side opposite that to which the clinical symptoms and findings pointed. In the remainder, they were obtained in cases in which all findings were negative

The authors divide their cases into four groups Group I comprised those with variations of the ampullary pelvis, Group 2, cases with transition forms varying from those with a long superior major calvx to those with a bifid pelvis and those with two separate pelves Group 3, cases with the pseudo spider 'type of normal pelvis, and Group 4 cases which it was impossible to classify

Grant emphasizes the need for cooperation be tween the roentgenologist and urologist to obtain the best results in urological diagnosis. To make a diagnosis of urinary concretions from shadows seen in the roentgenogram along the urinary tract it is frequently necessary to consider also the clinical findings which the urologist can obtain by cystos copy or other means On the other hand, the dis covery of stones in the bladder on cystoscopic examination should lead to a thorough roentgen examination to ascertain the possible presence of others which may not have been visualized. The detection of small particles of stone in the kidney at the operating table by fluoroscopy or plate is another proof of the interdependence of roentgenology and urology In borderline cases, the pyelogram can be read with only approximate accuracy If the picture 15 not positively diagnostic, the proof must rest on the clinical findings ADOLPH HARTUNG, M D

D Agata G Suture of the Renal Pelvis After Pyelolithotomy (A proposito della sutura del bacinetto renale dopo la pielolitotomia) stal de urol 1926 11, 267

There has been a great deal of discussion as to whether it is necessary to suture the incision in the kidney pelvis after pyelolithotomy Recently, for the removal of a very large stone, D Agata substituted for the usual longitudinal incision a curved one with an obtuse angle Through this incision the stone was readily removed. To close the apex of the angular incision he used three fine catgut su tures Uneventful recovery followed

The author believes that if the incision is not to be sutured it should be sharp and clean cut and without contusion of the edges such as is apt to occur if a large stone is removed through the usual longitudinal incision. His angular incision is best

for the removal of large stones

To settle the question as to whether suture is necessary, D Agata performed three sense of experiments on dogs. In one senses he made longitudinal microsions from 0.4 to 0.7 cm long in the kidney pelvis and did not suture them. In another he made his angular incision and did not suture and in the third he made his angular incision and sutured the wound.

In the animals in which longitudinal incisions were made and not sutured spontaneous healing occurred In those with an angular incision spon taneous healing occurred only when suturing was done A few sutures should therefore be applied at the apex of the angle to prevent extraflexion of the margin of the wound which impedes normal cicatri zation. It is also best not to denude the remon of the wound of the external connective tissue and the loose fatty tissue around the pelvis as these help to cement the hos of the incision at first. If a longitudinal incision is sufficient it should not be sutured but when an angular incision is neces sary because of large size of the stone a few sutures should be used AUDREY G MORGAN M D

Rusche G F Carcinoma of the Kidney California & West Med 1926 XXIV 474

Rusche reports the case of a man 69 years of age who entered the hospital complaining of pain in the epigastric region and constipation. The pain was sharp but not colicity or radiating. At frequent intervals the faces contained blood. There were no symptoms referable to the genito unnary tract. The unne was microscopically and chemically neg ative. Cystoscopy revealed no evidence of urethral obstruction and no residual unne.

The left ureteral catheter was inserted readily but it was impossible to introduce the right catheter more than 2 cm. The left ladney secreted normal clear unne. The unne collected from the right side was tunhod chiefly because of bleeding caused by the numerous attempts made to pass the catheter. On account of leakage around the ureteral catheters an accurate comparative functional test was impossible. It was apparent however that both kidneys were functioning.

Pyelograms made with the use of sodium bromide showed the left renal pelvis to be normal in size, shape and outline There was no dilatation of the

calyces

The right ludney was markedly displaced upward and inward and the capacity of its pelvis was greater than the normal average. The upper calyces of the right kidney were normal in shape and outline The inferior calyx was distorted and elongated to such a degree that it lay parallel with the ureter for a distance of 4 cm.

A ureterogram showed that the ureter bowed toward the midline so that it overlay the vertebral column giving conclusive evidence that the abdom inal mass was retroperitoneal. The right ureter was somewhat dilated. There was no evidence of a calculus or a stricture.

The chief points of interest in this case were

The difficulty in diagnosis presented by the
absence of hæmaturia and the vagueness of other
symptoms immediately referable to the kidney

2 The value of ureteral catheterization and pye lography in the diagnosis of kidney tumor

3 The unusual size of the palpable mass and the difficulty of ruling out intra abdominal tumor

4 The absence of any discoverable metastases and the excellent general condition of the patient nine months after the operation

Louis Gross M D

Allenbach Boeckel and Franck Imperforate Supernumerary Ureter Diagnoss by Pyelog raphy Partial Nephro Ureterectomy (Ureter surnumerarie bogne diagnostic pyelographique ephro urétérectome pattielle) J d'urol méd et chir 10.5 xxx 46

A woman of 27 years who had been previously well began to have daily attacks of abdominal pain with enlargement of the abdomen. There was no disturbance of meturition. After four months the symptoms stopped and the abdomen returned to its normal size. Subsequently the patients suffered another attack which was more violent than the first and accompanied by signs of intestinal occlu.

At operation a fluctuating tumor 10 cm long was found at the site of the left ureter A diagnosis of distation of the left ureter having been made the abdomen was closed, it being the surgeon is intention to attempt to remove the obstruction by cathetern zation of the ureter However on catheterization the next day both ureters seemed normal

After the laparotomy the patient remained well for seven months but then had an attack of intense abdominal pein and distention accompanied by fever Vagnal examination revealed a fluctuating protrusion of the anterior wall. On the following day this opened spontaneously and discharged a large amount of pus. After the discharge of the pus the temperature returned to normal.

The tumor discovered at the first examination the abdominal spasms on the left side, and the evacuation of pus through the vagina suggested a supernumerary ureter. This diagnosis was venfied by making a second pyelogram of the left ureter and at the same time injecting collargol into the

vaginal fistula

Operation showed the supernumerary ureter to be entirely separate from the normal one. The upper part of the supernumerary ureter was removed with a wedge cut from the upper pole of the kidney. The lower end was left in order to avoid prolonging the operation. Recovery was complicated by suppuration in the stump which was not

extirnated

This patient had had an imperforate ureter for twenty three years without any symptoms, although imperforate excretory canals are generally considered to be very serious. The reason why the symptoms developed slowly was revealed by histological examination of the specimen. The ureter appeared grossly to be blind at its upper as well as its lower end, but microscopic examination showed that it had originally communicated with a part of the renal parenchyma, glomeruli were found in the fibrous tissue which connected the upper end of the ureter with the upper pole of the kidney. There had probably been filtration of urine into the ureter since birth, but the part of the kidney drained by this ureter was very small.

The ureter had apparently become affected at the time of the first attack of abdominal pain five years before Ureteral inflammation generally extends to the periureteral tissue and causes peritonitis

The symptoms depend upon the site of the lower end of the supernumerary ureter Spontaneous perforation of the lower end must be confirmed by roentgenography The operation of choice is subpentioneal resection of the imperiorate ureter and resection of the segment of kidney which it drains

Only twenty three cases of imperforate super numerary ureter have been reported. The authors case is the fourth one in which operation was performed. AUDIEN G. MORGAN, M.D.

Stewart R L Primary Tumors of the Ureter Brit J Surg 1926, xm 667

Since 1922 when Aschner collected forty seven published cases of primary ureteral tumors, Stewart has been able to collect five additional cases in the literature. He reports also one of his own

Stewart's case was that of a 75 year old woman who complaned of pain in the right side and hematuna which had begun eight months previously. The first attack of hematuna lasted three weeks. The patient was then free from symptoms for three months, when a second attack occurred. Thereafter the pain in the side persisted up to the time the patient was admitted to the hospital.

Physical examination was negative except for tenderness on deep palpation in the right hypo chondriac and lumbar regions. Cystoscopic examination revealed a bullous ordema about the right untertail ordince. Ureteral catheters were passed on the left side for a distance of 30 cm and on the right side for a distance of 50 cm. Prelographic studies showed obstruction of the right ureter at the level of the lumbosacral articulation. At operation, the kidney was found to be of normal size. The ureter also was normal in its proximal 6 cm portion, but below this there was a fusiform swelling 3 cm long. The kidney and ureter were removed.

The pathological examination showed a dilatation of the ureter proximal to the tumor. The tumor was of a sessile papillary type with a pedunculated

growth extending down into the lumen of the ureter The distal portion showed microscopically the typical picture of a proliferative benign papilloma. In the proximal portion there were evidences of beginning infiltration. The diagnosis of primary papillary epithelial tumor of the ureter was made.

Calcul are supposed to be an etiological factor in a certain percentage of cases as they were found in

eleven of the fifty four reported

Neoplasms of the ureter are most common in the sixth decade of life. Their incidence in males is about the same as in females.

Stemart gives the following pathological classification of ureteral tumors (A) Connective tissue tumors sarcoma (B) Epithelial tumors (i) benign papilloma, (2) papillary carcinoma, and (3) non papillary carcinoma.

Sarcoma is rare, only five cases have been reported Benign papillomata are the most common tumors of the ureter They are usually situated at the proximal or the distal end

Papillary tumors, which are especially prone to become malignant, are usually located at the lower end of the ureter

The non papillary carcinomata are the rarest

forms of epithelial tumors of the ureter

Practically all ureteral tumors produce a secondary hydronephrosis The malignant forms metastasize early to the retroperitoneal nodes

Hæmatura, the most frequent sign, occurs in 65 per cent of all cases and in over 75 per cent of cases of papilloma and papillary carcinoma. Pain, which is much less common, varies from a dull ache to sharp lancinating pain. Hydronephrosis has been found in 55 per cent of the cases. Tumors of the ureter may very closely simulate calcult, renal and and vesical tumors, and hydronephrosis.

The diagnosis is difficult, in nearly 40 per cent of the reported cases the tumor was discovered after death. If a tumor can be seen on cystoscopic examination protruding from the ureter into the bladder, the diagnosis is much easier. When the introduction of a ureteral catheter is obstructed and is followed by profuse bleeding, the possibility of a ureteral tumor must be borne in mind. The use of the pyclogram offers the most help in the diagnosis.

The treatment depends upon the type and location of the tumor and the patients condition In most cases the ideal treatment is complete nephroureterectomy. If the tumor is at the lower end of the ureter and projects into the bladder, endoscopic fulguration or local excision with re implantation of the ureteral stump into the bladder may be the method of choice.

ALTOY CORSINER M. D.

BLADDER, URETHRA, AND PENIS

Rubritius H, and Schwarz O Contribution to the Problem of Contracture of the Neck of the Bladder J Urol 1926 TV, 461

The changes in the sphincter of the bladder and its nerve supply which lead to retention range from prostatic hypertrophy to microscopic enlargement of the perturethral glands inflammatory changes in the sphincter strictures of the urethra, spinal cord dis ea e hysteria etc. These conditions result in a loss of sensitiveness of the reflex diminution of elasticity hypertonicity and finally mechanical contracture of the ornice

It is impossible to designate this entire group of conditions by any one term that will convey more

than the term retention

The authors do not recognize a strict differentiation between structural and functional factors common functional factor in practically all cases of retention is hypertonus of the sphincter This is the same whether it is brought about by a small adenoma or by inflammatory contraction In one group of cases the hypertonia was so marked that it must be considered the only cause of the retention

The best method of treatment consists in trans vesical incision into the sphincter and the enuclea tion of any periorethral adenoma that may be

C TRAVERS SIEPITA M D

Avsaguer and Papin The Use of Heat and Cold in the Urethra (Les méthodes thermo et croo thérapeutiques dans l'urêthre) J d'urol méd et chte 1926 x41 178

The beneficial action of heat and cold on in flammatory processes of all kinds is well known The author uses heat and cold in the treatment of gonorrheal urethritis. A rubber band having been placed around the root of the pens to slow the circulation the patient takes a position on all fours with cushions under his knees and hands and im merses the penis in a Dewar fla k containing hot water or melting ice

Heat can be applied without causing pain up to a temperature of 43 degrees C in the urethra or up to 43 5 degrees C if a dose of 1 5 gm of pyramidon is given beforehand. This is called the threshold

of pain for heat. With anasthetization of the penis a higher degree of heat can be borne

Gonococci are killed at 454 degrees C in vitro and probably at a lower temperature in tito at any rate their multiplication is storped at 395 degrees C The heat can be continued for an hour and a quarter without doing any harm. As soon as the penis is removed from the bath and the band is removed it regains its normal color

In the use of cold pain begins at about 14 degrees C which is called the threshold of pain from cold Between 11 and 65 degrees C the pain stops and there is anæsthesia to the touch This is the threshold of anæsthesia from cold nt is less definite than the thresholds of pain. Cold is better

than heat for the patient because of the natural anasthesia it induces and because cold is as oci ated with much less danger of coagulation of the

As the vitality of the gonococcus is low when it is removed from the incubator it is probable that it can be killed by a rather moderate degree of cold

The simplest method of treating with cold consists in ligating the penis and exposing it to the air when the weather is cold enough. This method might be used for prophylaxis

So far, the author's work has been limited to the development of the technique and the determination of the degrees of heat and cold that can be borne without injury

The results of the therapeutic application of the method will be reported fater

AUDREY G MORCAN M D

Botteselle R Modifications of Flap Urethroplasty in Perineal Fistula of the Urethra (Modificazione ai pro essi di uretroplastica a lembi nel e fi tole uretrali perineali) Arch ital as urol 1926 is 256

In Botteselle's urethroplasty for fistula of the urethra opening on the perineum the patient is placed on his back with his thirds flexed is for a perineal cystotomy a No 20 Nelaton sound is introduced into the urethra and two parallel trans verse incisions are made at the two ends of the fistula and prolonged far enough laterally to form the two ides of the flap to be used. A vertical incision uniting the two transverse incisions is then made at the right margin of the fistula

The cicatricial tissue around the orifice is excised in such a manner as to leave the margins of the excised area perfectly rectilinear. Another incision is then made i cm to the left of the border of the excised area to unite the two transverse inci ions and form the fourth side of a rectangle. In this way a rectangular flap is created which is sufficiently large to cover the fistula without changing the caliber of the canal The flan is di sected free except for a hinge at its right border turned over the fistula and fastened with fine non penetrating cateut sutures

The two original transverse incisions are then prolonged a little to the left and much more to the n ht to form two quadrangular flaps somewhat different in size. The e flaps are brought together and sutured with silk. The transverse incisions are also sutured The longitudinal line then lies to the left of the midline and because of the different elasticity of the superficial and deep tisues the superficial and deep suture lines do not lie over each other The region is dressed with a T bandage and a retention catheter is introduced for forty eight

For succes ful results the urine must be aseptic and the urethra normal in caliber above and below the site of the operation Drainage is not necessary The operation should be done under general anxis the ia as local anæsthesia causes imbibition of the tissues which may interfere with their vitality and prevent prompt healing The cutaneous flap should be denuded of hair as hairs favor the formation of urethral calcult Depilation by electricity should be done before the operation

The steps in the operation are shown in illustra tions

AUDREY G MORGAN M D

GENITAL ORGANS

The Indications Technique and Cattaneo G Results of Freyer's Prostatectomy (Indicazioni condizioni permittenti, tecnica e resultati prossimi della prostatectomia alla I reyer) Arch ital di urol 1926 11 93

Freyer's operation is a suprapubic prostatectomy which may be performed in one or two stages as indicated To prevent postoperative hæmorrhage an intravenous injection of 20 c cm of 5 per cent calcium chloride is given the day before the operation and another two hours before In about half of the cases treated in this way it has been possible to dispense with tamponade of the bed of the prostate During the first years this method was used at the Milan Climc (1900 to 1913) the mor tality was 14 38 per cent, in 1921 it was 4 55 per cent, and in a series of 100 cases operated upon in the period from Mav, 19-3, to May 1925 it fell to I per cent Details of these 100 cases are given in a table

Retention of urine is the chief indication for operation. If the urine is aseptic and small in amount (less than 100 c cm) expectant treatment is justified, especially if the patient can present himself for periodical examinations to determine whether the retention is progressing or remaining stationary

Absolute indications for prostatectomy are re peated hæmaturia the suspicion of cancerous de generation, primary or secondary calculosis and papillomatous tumors and diverticula of the bladder

Operation is indicated in cases of septic retention because no palliative treatment can overcome sepsis of the bladder when once it has become established Prostatectomy should not be performed as an emergency operation. In emergency cases a supra pubic cystotomy should be done first and the major operation postponed until the patient is in a better condition Before operation an investigation of the function of the kidneys should be made by the determination of Ambard's constant and the phenol phthalein test

However, these findings should not be considered an absolute guide, the general condition must be considered with them

In the majority of cases prostatectomy should be performed in two stages, the one stage operation being reserved for small prostates deformity of the neck, and musculo fibrous lesions The improve ment in the results of the operation is due in great measure to the abandonment of general anæsthesia in favor of local anæsthesia for supra pubic cystotomy and epidural anæsthesia for prostatectomy Although the mortality has been greatly reduced, it must be remembered that prostatectomy is a serious operation and every patient with a prostatic condition must be given a careful examination and preparation

AUDREY G MORGAN M D

Tenewall E. Two Hundred and Fifty Suprapuble Prostatectomies for Hypertrophy of the Prostate Acta chirurg Scand , 1026, lix 455

The author reports the results of 250 suprapubic prostatectomies performed by him during the period from 1010 to 19 3 The late results in 188 cases are

Twenty seven of the patients are dead, a mortality of 10 8 per cent Good results were obtained in 180 cases (72 per cent) fair results in two (o 80 per cent) and poor results in six (2 4 per cent)

Tengwall performs the operation according to the Frever technique but drains the bladder with a retention catheter Only local anasthesia is used The prostatic bed is tamponed The greatest impor tance is attached to the testing of the function of the kidneys For this test Volhard's water charge test is used in connection with the concentration test and recently, also with the determination of the blood natrogen

If the kidney function is poor pre operative treatment under the control of repeated tests of kidney function made by draining the urinary passages and the administration of an abundant supply of fluid are of great importance. If the function of the kidneys improves only slowly under this treatment, the operation should be performed

in two stages

One definite indication for operation is chronic complete retention. This is present in the cases of all patients who live what is known as the 'catheter life. The most common indication for operation is chronic incomplete retention Operation is indicated also by a residual urine of from 50 to 100 c cm associated with frequent urination performed only with great effort and straining. Other indications are unendurable pain during urination and violent intravesical bleeding

In 145 cases in which a microscopic examination was made cancer was found in only one Therefore the author does not regard the danger of cancer as an indication for operation Infection in the urinary passages is not a contra indication to operation, but renders necessary careful preliminary treatment and control of the functioning of the kidneys

The author attempts to explain the deaths and the poor and fair results in his cases and discusses the effect of the operation on the sexual functions in

seventy four cases

The complications developing in the cases reviewed included epididymitis which occurred in 23 per cent-in the majority during the after treat ment-and strictures which occurred seven times In three of the cases of stricture there was complete closure of the base of the bladder which necessitated operation

The author emphasizes the importance of repeated examination during the first six months after the operation in order to prevent stricture. Hermin of the wound occurred in four of his cases, but there was no instance in which fistula of the bladder persisted

MISCELLANEOUS

Young H H The Diagnosis and Treatment of Hæmaturia Allantic M J 1925 xxiv 587

Hamatuna may be due to a general condition such as purpura leukamia or typhoid fever Hamoglobinuna differs from hamatuna in the color the microscopic findings and the findings of the benzidin and spectroscopic tests

Chief of the hæmaturias associated with specific local conditions are the so called idiopathic hæma turias in which the pathological examination fails

to show anything abnormal

Traumatic hematura is common in war and nidistrial surgical cases. Calculus is a common cause but is less commonly responsible than tuberculosis. The bleeding is not at all common surate with the size of the calculus. Other common causes of hematura are tumors. When a tumor is responsible the severity of the bleeding depends upon the ettent to whith the kidney pelvis is involved. Ancurson of the renal artery as a consistent of the common so constandir proported are the common comm

Hæmaturia associated with nephritis pyelone phritis pyelitis or pyelitis cystica is difficult to differentiate from that due to tuberculosis or cal culus. The hæmaturia of septic infarction is usually unilateral and fulliminating and causes death within a few days unless operation is performed early Bleeding from tumors of the bladder may be excessive. Bleeding from yesical tuberculosis is not as severe as that caused by tuberculosis of the kidney. Foreign bodies are often the cause of hæmaturia but diverticula are seldom responsible. Prostatic bleeding is common but in carcinomia of the prostate it usually does not occur until late in the course of the disease.

Bleeding from the bladder or urethra may often be stopped by the use of styptics or caustics ful guration or radium. If a kidney or a preter is the source of the bleeding a definite diagnosis can be made as a rule by cystoscopy with pyelography or pyelo ureterography and comparative functional tests of the kidneys Essential hamaturia may be stonged by the passage of the ureteral catheter or the injection into the kidney pelvis of a r to 5 per cent solution of silver nitrate. In cases of tumor or tuberculosis of the urmary tract it is usually best to stop the hamaturia if possible by transfusion and to improve the general condition Bladder tumors respond well to fulruration diathermy and radium treatment Infiltrating carcinoma requires surgery or radium irradiation, and prostatic bleeding may demand prostatectomy

CLAUDE D HOLMES M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Nystrom G The Prognosis and Technique of Embolectomy (Zur Prognose und Methodik der Embolektomy) 4c a chirurg Scand 1926 lx, 2 9

In more than one third of the reported cases of embolectomy for impending gangrene of the extrem ities the operation had a clinically favorable result Arteriosclerosis does not exclude a good result, but when there are more serious changes in the intima there is danger that sounds introduced into the vessel may be caught in furrows in the intima and cause tunneling. In cases of emboli at the bifur cation of the aorta or in the common iliac artery laparotomy is not advisable as it is technically diffi cult and associated with great risk. If the embolus cannot be removed by a sound introduced into the vessel it is advisable to introduce the hand from the groin retroperitoneally and to "milk down" the embolus to a convenient site in the femoral artery from which it can be removed by arteriotomy

The author reports five cases of embolectomy. The first was that of a man 54 years of age who was suffering from arteriosclerosis and an embolus in the lower part of the femoral artery. After twenty four hours arteriotomy was performed above the embolus and the embolus was pushed down by means of a sound and removed through an incision in the pophteal artery. The circulation was restored but gangrene supervened and necessitated amputation of the ler.

or the left

The second case was that of a woman 64 years of age who had heart disease and emboli in both femoral arteries in the groin. The emboli were removed by arteriotomy performed directly over them. The circulation was completely restored and the pritient.

survived

The third patient whose case is reported was a man 68 years old who had advanced arteriosclerosis. myocarditis, and emboli in both iline arteries attempt to bring the emboli down after arteriotomy in the groin was unsuccessful. In the performance of the laparotomy the division of the common iliac artery into the external iliac and the hypogratric was mistaken for the bifurcation of the aorta This error was due to too small an incision, great cor pulency of the patient, and large vessels Γħe hypogastric artery, full of thrombi, was believed to be the left common that and was cut open. It was then sutured An attempt to remove the emboli directly through the laparotomy incision was un The hand was therefore introduced through the incision in the groin behind the peri toneum, upward along the vessels on each side, and the emboli were milked down to the sites for arteri otomy in the femoral artery The obstruction to the circulation was thereby removed but during the operation a new thrombus appeared in the right femoral artery. The putient died after twenty four hours and postmortem examination revealed throm boss of both femoral arteris.

Case 4 was that of a woman 56 verts of age who had a thrombus in the right line vein, an embolis in the right pulmonary artery, paradoxical arterial embolism (through the open foramen ovale), and emboli in the brain and both common illar arteries. Through incisions parallel with the inguinal by ment on each side it was possible, retroperationally, to milk down the emboli in the line arteries and remove them through an arteriotomy incision in the femoral artery. The circulation in the legs was strong pulse in the arteries of both feet, but the patient died from emboli in the brain.

The fifth case was that of a man 77 years of age who had an embolus in the left brachal artery Embolectomy performed after three and a half hours had a good result. In connection with this case the author cites another of brachal embolus in which operation was not performed because the patient entered the hospital late (the fifth day). The author believes that the later appearing ringrene would perhaps have been avoided if an immediate

embolectomy had been done

Glordano, D. Ancurism of the Abdominal Aorta with Gastric Symptoms, Introduction of a Silver plated Wire into the Sac of the Ancurism (Ancurisma dell norta addominale con sinte matology gastrica, introduzione di filo argentato nel sacco ancurismatico). Ann ital di chir, 1926, V, 125

The author reports the case of a man 40 years of age who entered the hospital with what was believed to be a tumor of the lesser curvature of the stomach Lifteen years ago the patient contracted syphilis I or this he was given calomel injections. but at the end of a month he discontinued the treatment because he felt well. About seven years ago he began to have a burning pain in the stomach which occurred about two hours after meals and lasted for an hour or two Iwo years ago he lost 2 kgm in weight and, in addition to the burning sen sation, experienced a feeling of weight in the engastrium which began after meals with prin lasting for one or two hours and was associated with acid regurs itation and constipation. Lor the past five months he had had eph astric pain irradiating to the back

Huoroscopic examination showed a defect in the lesser curvature which was assumed to be due to a tumor

On physical examination the patient was found to be poorly nourished and pale and to have a feetid breath from dental caries. The abdomen was rather ingid and pain was present in the epi gastric region. The pain was most severe in the midline beneath the ensioner process. The rigidity of the muscles made examination difficult but pal pation revealed a tumor with an arterial pulsation. The publishing the examination showed a large storach with a tendency toward by potonia and deformity of the shadow of the pylorus and antrum where pressure was painful.

An epigastric incision revealed a plusating retro gastric tumor the size of a fist which was very evidently an aneurism of the subdiaphragmatic aorta

Through a large svringe needle a 30 cm piece of thin copper ware plated with silver was passed into the ancurism and colled within it. The bleeding was stopped by the injection of 5 c cm of coagulen into the tissues around the aneurism. After the operation intravenous injections of an areanobenzol compound and intramuscular injections of calomel were given.

A month after the operation roentgen examination showed that the end of the wire had become un coiled and had risen in the aorta from the level of the second lumbar vertebra to the level of the second lumbar vertebra to the level of the seventh dorsal vertebra. At another examination fifteen days later the wire was found in the same position and a semiliunar segment of the lower and anterior part of the aneurism appeared more opaque suggesting the presence of stratified clost adherent to the wall. As the patient felt well and was releved of all his gastric symptoms he left the hospital and refused to return for further impettions.

When he was seen again two years and three months late he had gained weight his color was good and he still felt well. Epigastre palpation still showed pulsation from behind forward but no lateral expansion. Roentgenoscopic examination revealed no expinision of the tumor. Koentgeno graphic examination allowed that the upper part of graphic examination allowed that the upper part of contract with the contract of
It is impossible to determine whether the result in this case was due to the introduction of the wire into the aneurism or to the antisyphilis treatment but as the improvement began immediately after the operation Giordano believes the surgical treat ment was at least partly responsible for it. The presence of the broken wire in the aorta is still a cause for anyety.

Arneles by Colt Marshall and Wakeley in the July 1923 issue of the British Jeannal of Surgery review three similar operations. One of the patients survived only eight and a half months and the others died within a few days after the operation. Because of the danger of acute dilatation of the stomach from the pressure on the pyloric or prepyloric region the authors advise gastro enterostomy after the insertion of sure into the aneurism but Gordano

calls attention to the fact that in his case the opera tion not only failed to cause gastric symptoms but relieved those which were already present. Giordano is unable to say however whether the relief was due to the decrease in the expansion of the amenismal sac or to section of sympathetic fibers in the exposure of the sac above the lesser curvature

AUDREY G MORGAN M D

BLOOD TRANSFUSION

Morawitz P Blood Transfusion (Ueber Bluttrans fusion) Wonalsschr J Kinderheilk 1926 xxxi 320

Severe reactions to transfusion are caused by 1 o agglutinins and isolysins. Some of them may be prevented by determining the group of the donor and reconent before every transfusion either with the use of the serum of a member of the clinic staff belonging to Group I or 2 of by means of a test serum. In spite of this however chill occur when the blood is of the proper type and occasionally severe reactions are caused by repeated transfusions In one case in which blood of Group 3 was given a patient belonging to Group 1 the reaction was so severe that it was necessary to stop the transfusion It is possible that the group classification of Moss may not exactly correspond to the conditions pres ent Nevertheless it should always be used reliance is not to be placed upon a biological test alone

Besides carbon dioude posoning the indications for transfusion include the anamias. An especially important indication is pernicious anæmia. Most secondary anamias become cured even without transfusion when their cause is tuberculosis or a tumor transfusion is without avail. Transfusion is especially beneficial before operation in cases of birding gastire ulter and in cases with a heart birding to the properties of the pro

Most of the oo transfusions reviewed by the author were done for perincious anima. A large transfusion in this condition is sure to result in a remission. Transfusion is superior to Neisser and arseinc therapy and should be employed before the extrapation of the spleen. The remissions may last for a year or longer. The results are better in young persons than in old nersions.

Small intramuscular injections of blood are with out effect in permitious anamia but may be of value in secondary anamia in which there is a lack not only of iron but also of some of the other important elements of hamoglobin. The author is of the same opinion with regard to the effect of intravenous in jections of small amounts (10 to 0 c cm) of blood

Results may be obtained with every form of transfusion. The internists and pediatricians prefer the indirect methods. The results are best when the

patient reacts with chills and fever

In discussing the length of time that the trans fused erythrocytes survive the author calls attention to the fact that these cells are free cells without nuclei and nearly with a metabolism Conditions are therefore more favorable for their survival than for the survival of other transplants There is considerable evidence that they may survive. Hess was able to produce an artificial polycythæmia in rabbits by transfusion In one of the author's cases of secondary anæmia with pale erythrocytes poor in hæmoglobin the microscope still showed the pres ence of the highly colored transfused erythrocytes eight days after the transfusion

Studies of the nitrogen metabolism lead to the same conclusions In a case of pernicious anæmia the quantity of urobilin excreted in a period of two days after the transfusion corresponded to the amount of hæmo lobin transfused Before the transfusion the quantity was 1,700 mgm whereas in the two days following the transfusion it was 4,000 mgm Evidently the entire quantity of blood transfused was broken down, but in spite of this, there was a remission of the condition lasting for nine months

Remissions are caused not by an increase in the function of the bone marrow, but by a slowing of the destruction of the blood During a remission the function of the bone marrow is even less than before The unknown factor which is responsible for the quick destruction of the erythrocytes is in some way weakened by the transfusion In permicious anæmia transfusion is neither a substitution nor a stimulation therapy but has a favorable effect upon the greatly increased destruction of the blood Where this effect is exerted is still unknown Even when there is rapid destruction of erythrocytes in permicious anæmia, transfusion may have a favor able effect HEMPEL (Z)

LYMPH VESSELS AND GLANDS

Minot G R and Isaacs R Lymphoblastoma The Age and Ses (Malignant Lymphoma) Incidence the Duration of the Disease and the Effect of Roentgen Ray and Radium Irradiation and Surgery J Am M Ass 1926 lxxxv1 1185 1205

One of the important problems of modern medicine is the group of conditions which have as their most prominent feature progressive enlargement of the lymphoid tissue

Under the general heading of "lymphoblastoma" the authors recognize four types of disease lymphatic leukæmia, pseudo and aleukæmic lymphatic leukæmia Hodgkin's disease, and lymphosarcoma They review 477 cases of lymphoblastoma exclud ing typical cases of acute and chronic lymphatic lenkæmia

Lymphoblastoma occurs more frequently in males than in females In the cases reviewed the ratio was 2 to to Tn both sexes it is most common between the twentieth and twenty fourth years of age The disease appears to be relatively rare in males at puberty. In females it occurs most fre quently at puberty and the menopause

The ca es reviewed show that age and sex influence the susceptibility of the lymphoid tissue to disease

The average duration of life in all cases was 2 76 years but in about 10 per cent of both the irradiated and non irradiated cases the disease had been pres ent for six years or longer

Patients treated by surgery, whether or not they received roentgen ray or radon treatment, had lymphoblastoma on the average for 3 67 years or I II years longer than the 334 not undergoing operation However, it must be borne in mind that surgical procedures are apt to be undertaken chiefly when lymphoblastoma seems local or has progressed slowly or is not extensive

Among males the chance for a long duration of the disease is definitely greater for those over 34 years and under 6, years of age than for those under 25 years

In females the duration of the disease tends to be longer than in males

When a group of cases is considered as a whole, there is no definite evidence that irradiation has distinctly prolonged the duration of lymphoblasto ma but it is undoubtedly of great value because it alleviates the symptoms decreases the size of the lesions and improves the patient's efficiency

In some cases surgery may have a favorable in fluence upon the duration of the condition particul larly if it is employed early and thoroughly and is followed by irradiation JACOB S GROVE M.D.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Lillenthal II and Ziegler J M A Study in the Disinfection of the Hands Ann Sure 1026 lxxxiii 831

The authors demonstrated the meffectiveness of mechanical cleansing of the hands with green soap by using a mixture of lampblack and oil In spite of vigorous and prolonged efforts with green soap and the scrub brush a black line remained under and around the finger nails Other cleansing prepara tions were used with the same results After the cleansing cultures showed that all areas of the hands except the subungual and periungual tissues were stenle

Shortly after Grossich's technique for sterilization of the skin had been almost universally accepted Libenthal adopted the following technique for

sterilization of the hands

The perfectly dry finger tips are immersed in USP tincture of jodine up to the joint of the ter minal phalanx and then allowed to dry for five minutes At the end of that time the usual scrub bing process is carried out

Bacteriological tests have demonstrated that tincture of judge thus employed will completely

sterilize the spaces about the nails The authors recommend the use of lampblack to perfect the technique of scrubbing

J FRANK DOUGHTY M D

Lewis D Postoperative Treatment Boston M & S J 1926 czciv 913
Bryant J Surgical Convalescence Aspects Boston M & S J 1926 exciv 920

Lewis reminds us that the postoperative treat ment indicated in surgical cases depends largely upon the character of the operation the manner in which it was performed and the organs or tissues involved. The aim of the surgeon is to restore the patient to health in the best possible manner and as quickly as possible Postoperative treatment has been reduced markedly by the adoption of a strictly aseptic technique The pre operative care has much to do with the necessity for postoperative treatment Light food may usually be allowed until a few hours before the operation and water given up to half an hour before As a rule it is not advisable to disturb

the regular routine until a short time before the operation During the operation care should be taken to protect the back because backache is a common postoperative complaint Gas pains after operation may be relieved by the introduction of a rect al tube the application of heat to the abdomen

and the administration of opiates. The ordinary vomiting following gastro intestinal operations is usually relieved by a carefully introduced stomach tube, but the so-called vicious circle which means a mechanical obstruction, may require operative procedures

Two postoperative complications frequently de manding special attention are hiccough and acute dilatation of the stomach Hiccough occurs most frequently in cases in which the abdominal viscera and their peritoneal coverings are involved and in cases of brain and spinal cord lesions Fairly frequently it follows operations on the gall bladder and stomach It is more common in men than in women. The type of breathing may he a factor In the author's experience, gastric lavage has given more relief from this complication following gall bladder and stomach operations than any other procedure. In severe cases injection of the phrenic

nerve with alcohol is sometimes necessary

Acute dilatation of the stomach occurs most often after laparotomies particularly operations on th stomach and female pelvic organs. It may be reflex It is often manifested after twenty four or forty eight hours beginning with vomiting and a ense of fullness in the enigastrium. The vomiting be comes more pronounced but is virtually a regurer tation as if the stomach were overflowing symptoms are similar to those of peritonitis from perforation and intestinal obstruction. There is a marked and increasing thirst. The urine becomes scanty and the body apparently dehydrated. The toric manifestations increase at a rapid rate. The amount of fluid removed from the stomach through the tube is greatly in excess of the fluid intake

It is essential to recognize the condition early as nothing can be done for it surgically. The early removal of the fluid in the stomach is of great value Lavage should be continued until the fluid returns clear It is advisable to induce sleep with opiates and to give large quantities of normal salt solu tion

Heus as a postoperative complication is much less frequent today than formerly. It may be paralytic or mechanical As the contents of the obstructed loops of bowel are very toxic, a jeju

nostomy is frequently advisable

After the operation, fluids should be given by mouth if possible, as soon as the patient is awake but if there is a contra indication to giving them in this way, they may be administered by the drip method. The drip method is preferable to the inter mittent administration of from 4 to 6 oz every four to six hours To overcome dehydration, fluid may be given intravenously and insulin sub cutaneously If acidosis is present glucose should

be given intravenously and insulin subcutaneously. The patient should be allowed to rest and his diet and normal function restored as early as possible.

BRYANT states that so far as convalescence is concerned there is little difference between medical and surgical conditions. It has been considered for many years that the average convalescent period following a surgical operation is about three weeks, but Bryant believes it is six weeks since, after the hospital stay, another three weeks is required to get the patient back to normal He suggests that some arrangement might be made advantageously whereby patients leaving crowded city hospitals could be sent to a camp or con valescent institution in the country where adequate services could be given during the second three weeks period at a cost less than one half the regular hospital rate and to better advantage The value of such a procedure was shown by experience in the Patients receiving convalescent care in camps following their dismissal from the hospital were in much better physical and mental condition than those who re-entered military life immediately after their dismissal The usual routine of rapidly discharging patients and returning them to service early necessitated the return to the hospital of from 15 to 20 per cent

Co operation between the medical attendant who refers the case and the surgeon who operates is necessary in order that there may be continuity of

service

In order that the convalescent period may be as binef as possible the patient should be studied care fully before the operation when circumstances will permit Local infections should be sought for and if possible, remedied A system of nerve muccle training through proper exercise is of advantage

It is advisable to watch the diet carefully during this pre-operative period, cutting down the protein and fat intake, increasing the fluids, and giving a normal amount of vitamines, greens, and starches Adequate rest the night before the operation is imperative. The postoperative measures are also of importance.

The pain following operation should be controlled with opiates, but the time that the opiates should be given must not be left to the judgment of the nurse Nausea and vomiting should be combated by the administration of plain or soda water, carbonated drinks, or albumin water

A great deal depends upon the nursing and other care given the first few days after the operation Everything possible should be done to relieve the patient's mind and promote his bodily comfort

HAROLD M CAMP M D

Albano G Hydræmia in Certain Postoperative Syndromes (L hydermie dans quelques syndromes postoperatoires) J durol méd et chir 1926 xxi, 145

Soon after patients get out of bed following operations on the urinary tract the development of cedema is often noted in the evening. This may be limited to the region of the malleoli, but sometimes extends to the feet or legs. There may be also diurnal oliguna and nocturnal polyuna. The patient is often alarmed by the symptoms, attributing them to lidney disease.

The author was at first of the opinion that this syndrome occurred only after prostatectomy on elderly men, but he has seen it also after hysterectomy by the Wertheim method and has come to the conclusion that it is quite common after surgical operations in general. He believes that the kidneys have nothing to do with it. According to his theory, the aqueous part of the serum collects in the tissues during the day, and during the inght is brought back and directed to the blood and kidneys by the recumbent position.

To test this theory he examined two senes of persons, one senes of whom had been operated upon and the other senes of whom were normal Of the subjects who had been operated upon sixteen were treated for prostatism, three for calculus of the bladder, and one for cancer of the bladder, tand had had nephrectomy, one a nephrotomy, and two a Wertheim hysterectomy Refractometric examinations of the blood were made during the day just after the subject retired and at mid night after he had been lying down for four hours

The results showed that in the postoperative group there was a much higher percentage of cases with a difference of more than o o per cent between the day and the night hydræmia and that the index had a very evident tendency to descend to below normal at night. The author believes that the latter tendency is due to a disturbance of the water equilibrium between the tissues and the blood which is of a physicochemical nature but the cause of which is unknown He intends to make a further study of the refractometric index in the nephrop athies due to pregnancy and in true nephritis com plicating pregnancy determining the percentage of albumin in the cedematous fluid in the two condi AUDREY G MORGAN, M D tions

ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Genner V The Influence of Chemical Light Baths on the Bactericidal Processes in the Blood and the Serum Acta radiol, 1926 v, 172

The observation of Colebrook, Eidinow, and Hill of a bactericidal optimum in rabbit serum two hours after ultraviolet light treatment of the animal led the author to investigate this matter in a series of experiments with certain modifications of technique different from those used by the investigators mentioned. In only a few isolated cases did the findings in any way tend to substantiate the theory of an increase in bactericidal power due to the action of light, and even in these the effect was not as pronounced as that reported and not constant even in the same animal. The author therefore concludes

that the effect is not due entirely to the action of light In human erum no variations in the bactericidal power were observed. Even repeated light baths did not seem to produce any very lasting increase

In rabbit serum a very considerable increase in the bactericidal substances was observed to follow repeated experiments on the same animal, but undoubtedly this increase was due only to the reneated blood letting

Parallel experiments with respectively serum

and depb mated blood from the same rabbit seemed to show that the bactericidal effect of the serum is considerably tronger than that of the blood

Horsley J S Jr The Intravenous Administration of Gentian Violet and Mercurochrome 220 Soluble in the Treatment of Sepsis 1 treinic M Mor / 1926 hn 148

In experiments performed on normal dobs Horsley found that the intravenous injection of r per cent gentian violet or mercurochrome in doses up to 7 mem per kilogram of b) is weight was not followed by any demonstrable pathological lesion

Of thirty eight clinical ca es in which a 32 to 1

per cent solution of centian violet was administered

fifty one times decided improvement resulted in twenty one. In sepsis due to Gram positive staphy lococci in which the lesions were accessible to the blood stream the intravenous use of gentian violet in doses ranging from 3 to, mgm per kilogram of body weight was often most bereficial

In doses ranging from 3 to 5 mgm per kilogram of body weight a r per cent aqueous solution of mercurochrome caused improvement in only four of twelve cases of sepsis The most marked improve ment was noted in cases of sepsis caused by Gram negative organisms of the colon bacillus group or by the gonocorcus When no reaction occurred there was usually no definite improvement. Nine moderate and two severe reactions occurred in this series of eighteen cases

Doses of less than 3 mgm per kilogram of body weight of either of the dyes were of little value Often several injections at intervals were necessary

The mode of action of these dyes is complex and as yet unexplained Similar results followed in creasing intramuscular injections of milk at intervals and may occur after powerful reactions caused by other than intravenous preparations

I FRANK DOUGHTY M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Siye M Some Misconceptions Regarding the Relation of Heredity to Cancer and Other Diseases Studies in the Incidence and Inheritability of Spontaneous Cancer in Mice—Twenty Third Report J Am II 1ss 1926

The attempt to establish the relationship of heredity to disease is handicapped by preconceived ideas and prejudices not based on scientific facts. Trouble is caused also by widely divergent interpretations of terms used in this connection. Hereditary diseases are not contracted in utero. The term congenitally is often misinterpreted or misused, frequently being considered synonymous with "hereditary." Intra uterine influences determine congenital conditions but have nothing to do with those that are hereditary. Although the question of inheritance is often considered in connection with certain diseases there have been few adequate studies to prove or disprove the idea scientifically.

The author includes in her article three graphs showing respectively how albinos can be derived by the classical method when neither parent nor any of the four grandparents were albino, how blue eyed individuals are readily obtained when neither parent nor any of the four grandparents were blue eyed and how cancerous individuals can be ob tained by the classical method when neither parent nor any of the four grandparents had cancer This was accomplished by mating a hybrid and a domi nant type in both maternal and paternal grand parents and then mating the two hybrid types to produce the recessive type. The author's studies on cancer date back to 1911 Previous to that time, nearly all studies on animal cancer were carried on through the use of grafted cancers

Reference is made to the work of Fibiger, Bullock and Curtis, and Yamagiwa which, according to the author, do not oppose the fact of cancer inheritance

Another obstacle preventing the establishment of the facts of cancer heredity is the idea that since human matings cannot be controlled similarly to those of laboratory animals, the demonstrated facts of heredity do not apply to the human species and may therefore be categorically dismis ed Valuable scientific data along this line might be obtained if it were possible to establish permanent records of periodical examinations of every living person and accurate autopsy findings of all of the dead of three generations Such data would include matings of double cancerous parentage, double non cancerous patentage, non cancer with hybrid carrier and cancer with hybrid carrier and cancer with hybrid carrier.

in connection with the study of cancer should be made with carefully conducted biological controls

It is evident that a cancer resistant mechanism is present in some members of every species. This is manifested by the fact that spontaneous cancers do not arise in every individual in the human family or among lower animals even though they may he under the same conditions and are subjected to the same treatment.

In conclusion the author says "The scientific method of procedure for those who cannot accept the evolutionary evidence is not categorically to deny what they cannot disprove and what has indisputably been found true by many workers, but rather to begin the measures which inevitably must produce scientific data for the investigation of he redity in man 'Harold Camp MD

Warren S L and Pearse H E The Repeated Inoculations of Animals with So Called Can cer Organisms' Am J M Sc 1926 clxx 820

Two hundred and forty one mice of a strain susceptible to mouse cancer inoculations but in which spontaneous tumors were very rare were given at weekly intervals intracutaneous injections of either the micrococcus of Nuzum or diphtheroids and micrococci obtained from human breast can cers. The inoculations were continued until the animal died or for four months. At the end of four months only fifty mice remained alive. Most of the others had died of septicemia. The surviving fifty mice were observed for two months longer, or for

a total of six months

Ulcerations of the skin which healed readily
occurred with great regularity but none of the
animals except one which developed a spontaneous
tumor of the liver showed any evidence of a neo

nlastic growth

Four rabbits which received weekly injections of both diphtheroids and micrococci for from three to five months showed no signs of malignant disease at the end of six months

The authors conclude that there was no evidence that any of the organisms used play a prominent role in the etiology of cancer but an indirect role is possible

J FRANK DOLGHTY M D

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Bloodgood J C The Prevention Diagnosis and Treatment of Cancer in Its Earliest Stages South W J 1926 xix 87 Horsley J S Modern Tendencies in the Treat

ment of Cancer South M J 19 6 tix 292

LYNCH The diagnosis of a tumor should be arrived at by consultation between the surpeon and

the nathologist. It should not be made by the surgeon alone unless he is a qualified tissue pathol oust. A common erroneous helief is that the malig nant cell has a characteristic annearance. If this were true there would be no reason to confuse inflammatory growths with neoplastic growths or benign tumors with malignant tumors difficult phase of the problem lies in the borderline cases in which chronically inflamed tissue does or does not pass into neoplastic growth. Most cured sarcomata and cancers were only inflammatory prowths in which the distortion of the structures was so pronounced as to lead to the mistake in diagnosis Every section of a tumor should be carefully studied Frequently the risk of a second operation is pref erable to that attending a quick frozen section diagnosis

The exact differentiation of types of maingnancy is necessary not only for purposes of study, but immediately for purposes of treatment. The grad so more value especially it the site of origin of the tumor is known I hoppy a suitable specimen must be obtained and all parts of the section care

fully examined

BLOOD-LOOD Cancer never begins in a healthy spot on the skin. The lasty should be taught that such skin lesions as moles warts scaly areas and unlers are potentially dangerous and should be care fully watched. It such areas do not heal they should be excised with a sufficient margin with a kinfe or cautery. Biopsy 1 never necessary before operation unless the lerion is large and its complete removal would cause mutilation. I afte cancer of the skin is an unnecessing disease due to ignorance and dirt

Cause of cancer of the mouth lips and tongue are tobacco mriation duty teeth faulty dentures and neglected pyorthera. Tobacco the most unportant cause produces first a leucoplakin Cancer of the oral cavity is a preventiable disease and will disappear when the latty are taught to seek are cannosation the moment a sore spot on 'F lips tongue or cheeks is noticed and the control of the logs are control and diagnosed easily treated surgical and are of the roath which are not enter must be recovered and diagnosed easily treated surgical and are of the roath which are not tongue are carried and diagnosed easily treated surgical and are of the roath which are not some and the roat of the roath which are not enter must be retained and diagnosed easily treated surgical and the roath which are not enter must be retained and diagnosed easily treated surgical and the roath which are not enter must be retained and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and diagnosed easily treated surgical and the roath which are not entered and t

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cersis may present no symptoms as passed the stage of operability of any who the condition with There is stul a difference of chether radiation or hysterectomy final results

the breast early recognition and we will improve the final results is obtained in less than to per In the stomach the charces of overlooking a cancer of the right half of the organ in the operable and curative stage are very slight if a detailed examination is made, but a cancer in the cardiac

half may peoduce no symptom until it is inoperable. There has been a greater improvement in the results obtained in cancer of the colon than those obtained in cancer of the stomach. Cancers in the right colon come under observation later than those of the left colon because the liquid contents of the right colon can pass through the neoplastic canal without blocking it while solid faces in the left colon are obstructed more easily 1 ray examination of the colon has been of great value in revealing the early dangnosis

Cancer of the rectum and lower sigmoid can be felt and can also be seen by protoscopic examination. The technique of resection and anastomosis of the

colon is a fairly uniform procedure

HORSLEY Good end results from operations for cancer depend upon a knowledge of the proper surgical technique and of the histological type and extent of the malicanary.

Though Coley 5 bacterial towns eem to have cured a few cases of apparently hopeless sarcoma the hypothesis that the cause of all cancer is bacterial

has no foundation in fact

In recent years the prophylactic treatment of cancer has been greatly emphasized. Undoubtedly this will be beneficial in cancers occurring in regions of the body open to inspection. The removal of causes of irritation such as a sharp tooth and the even ion of warts or moles especially those which are deeply pigmented serves to eliminate potential cancer.

That a certain percentage of cancers of the stomach arise on a basis of apparently being peptic ulcers seems generally conceded but there is considerable divergence of opinion as to the percentage bright cancers that so ongaine Exactly of gastic ulcer is therefore a prophylacute treatment for cancer of the stomach

We must recogn e that while cancer is originally local and early excision will effect a cute in a large percentage of cases the malignancy is sometimes agent that by the time the disease becomes

o great that by the time the disease becomes evident any form of eradication is practically hope less Fortunately, cancers of the latter type constitute probably kas than 10 per cent of all cance s

Dissection with the thermal or electric cautery or immediate cautery and the raw surfaces rade by kinf, dissection is of great importance. The thermo cautery or electric cautery not only destroys the malgianat rells that he in its course but to some extent seals the lymphatics and small blood reside that may later absorb any cancer cells left behind

The influence of irradiation by radium or neet gen ray upon cancerous growths is difficult to eval unter. The majority of radiologists have found that while there are many limitations to this therapy irradiation is of considerable value. No surgeon can accomplish the best work in the treatment of malignancy unless in many instances he combines with the surgical technique the use of radium or the skillful application of roentgen ray therapy by a competent radiologist Radiology seems most successful in the cellular malignant tumors, such as lymphosarcoma, in which excision is futile

As normal tissue has an inhibiting influence upon basal cell cancer, tissue from a distance has been applied over the raw surface left by the excision of an intractable basal cell cancer Recently ten cases so treated were reported. In all of them the cancer was extensive and had resisted treatment In several of them, operation and irradiation with radium and the roentgen ray had been tried without avail In five, there has been no recurrence In those in which a recurrence developed, it never appeared in the flap or along its margin. It is po sible that eventually the resistance of the flap to the cancer may break down, but so far, in all of these cases, it seems to hold back the neoplasm

CYRIL J GLASPEL, M D

GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Chievitz O General Light Treatment in Surgical Tuberculosis Acta radiol 1026 v 143 Malstrom V Some Experiences in Connection with Light Treatment in Cases of Surgical

Tuberculosis Acta radiol 1926 v 153

CHIEVITZ reviews the indications which have been accepted at the Finsen Institute in Copenhagen for the treatment of surgical tuberculosis. As a rule the treatment is conservative and includes light baths but in cases of tuberculosis of the knee in adults there is a tendency to advocate early re section

MALSTROM states that in surgical tuberculosis he has employed light treatment combined with sana torium care, surgical and orthopedic measures and occasionally \ ray treatment He gives a few case

histories to show what may be accomplished by this combined procedure

During the early part of the treatment, signs of reaction are often noticed in the tuberculous foci When this is the case caution is necessary trary to a rather widespread belief, pulmonary tuberculosis and fever are not contra indications to light treatment Every case of tuberculosis should be given general treatment including light treat ment, but it should be left to the surgeon to deter mine whether surgical and orthopedic measures are advisable in addition

In conclusion the author states that a scientific investigation of the action of the light bath is greatly to be desired

Siedamgrotzky The Roentgen Ray Treatment of Surgical Tuberculosis (Zur Roentgenbehandlung chirurgischer Tuberkulose) Arch f klin Chir, 10 6 CXXXIX 114

In the Charite Berlin, considerably larger roent gen ray doses are employed in the treatment of lymphatic tuberculosis than in other institutions However in a small number of cases-those with persistent fistulæ-the use of small doses is necessary The treatment is not confined to the small areas containing the diseased glands all of the surround ing tissues are irradiated

Since April 1926, about 600 cases have been treated Of these, 85 per cent were cured 14 5 per cent greatly improved and o 5 per cent uninfluenced In contrast to the large number of cases of lymphatic tuberculosis only 130 cases of other types of surgical tuberculosis were treated with the roentgen ray

Roentgen ray treatment is the treatment of choice for spina ventosa as well as for all postopera tive tuberculous fistulæ In tuberculosis of small cancellous bones and small joints, roenthen ray irradiation is of great aid in combating the disease Tuberculosis of the larger joints is in general unsuited to roentgen treatment VALENTIN (Z)

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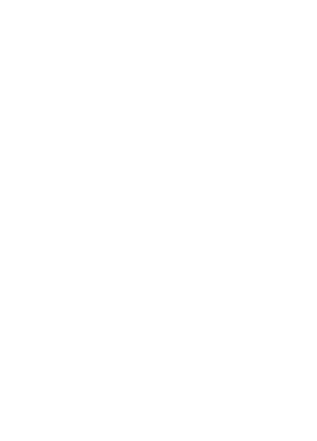
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EDITOR'S COMMENT

N an interesting study of two large series of cases of lymphoblastoma by Minot of the Huntington Memorial Hospital, Boston (p. 508) and Desjardins of the Mayo Clinic at Rochester (p 500) one is struck by the similarity between the two groups, both as to the duration of the disease and the results of treatment A fur ther parallelism between two types of lymphoblastoma-Hodgkin's disease and lymphosarco ma-is brought out by Desiardins who notes that in a series of cases reported in 1923 the average duration of the two conditions when untreated was almost identical, and that in a second later series the average duration of the disease was thirty-eight months in the Hodgkin's group and twenty eight months in the lymphosarcoma group Both authors agree that radiotherapy does not notably affect the average duration of life in cases of lymphoblastoma, although it is of marked value in alleviating distressing symptoms and in individual instances it has shown a marked effect on the disease process

The management of gotter cases as carried out at the University Hospital in Philadelphia and the importance of follow up studies in this root cases are discussed in two helpful papers by Frazier and Mosser (p. 45°) and by Clute of the Lahee Clinic in Boston (p. 45°). The fact that Frazier and Mosser have been able to secure the maximal benefit of iodine by the administration of 10 minims daily for from seven to ten days is interesting in view of the fact that larger doss, administrated for a considerably longer period of time are frequently required in other localities to secure remissions which will permit of operation

The interest in the surgery of the sympathetic system is reflected in a number of papers which are reviewed in this month's issue of the ABSTRACT Brown of the Mayo Chnic (p. 455) and Davis and Kanavel (p. 460) agree on the necessity of removal of the lumbar sympathetic chain if interruption of the vasoconstricting impulses to the blood vessels of the lower extremity is indicated Ranson (p 458) emphasizes the ana tomical explanation of this fact in pointing out that the innervation of the blood vessels of the extremities is through the spinal nerves Cutler and Fine's report of seven cases of sympathec tomy for angina pectoris is a helpful contribution to the literature on the surgical relief of angina

Recognition of the importance of gastritis as a factor in the production of gastric ulcer and as a potential source of disaster in the surgical man agement of ulcer is again stressed by Gregoire (p. 471) and Bohmansson (p 471) The latter ex presses the opinion that restoration of normal gastric mobility and of the normal pathway through the duodenum by the Billroth I operation gives the best clinical results in cases of gastric ulcer Walton on the other hand (p 472) advo cates wide wedge resection for ulcers located on the lesser curvature with temporary occlusion of the pylorus and posterior gastro enterostomy He suggests that the gastro-enterostomy opening be made as close as possible to the greater curva ture and so placed that one half of the opening lies proximal and the other half distal to the line of excision of the ulcer Lakey (p. 4.0) empha sizes the diagnostic importance of the medical management of gastric ulcer particularly if carcinoma is suspected. He believes that if symptoms are not relieved and if the \ ray de fect and occult blood are still present after a week or two radical operation should be performed

Rufanoff's experimental studies in acute pan creatitis and the part played by cholecystitis in its development (p. 478) emphasize the importance of the combination of obstruction and infection. He believes that acute hemorrhage pancreatitis susualli develops after infected bile enters the pancreatic tissue in the presence of pancreatic duct obstruction. He mentions the value of anastomosis of the bile passages to the gastro infestinal tract in the presence of chronic pancreatitis with compression of the common duct—a point emphasized by fuller's report of three cases of cholecystodiodenostomy (p. 477) in cases of common duct obstruction

Mentzer's interesting study of cholicystitis and cholelthasis, for 476) indicates that one of the important factors stressed by Rufanoff in the telology of pancreatitis—infection of the bile passages—is present much more frequently than is generally considered. The fact that in 66 per cent of 612 consecutive autopsies there was gross evidence of gall bladder disease and in 7,5 per cent pathological changes on microscopic examination emphasizes again the major importance of infection of the bile passages in the production of morbidity.

INTERNATIONAL ABSTRACT OF SURGERY

DECEMBER, 1926

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

EYE

Clapp C A Metastatic Carcinoma of the Cho roid with the Report of Two Cases Four Eves Am J Ophth 10 6, 3 8 17 513

Metastatic carcinoma of the choroid is rare but is probably not always reported. The author reports two cases. In one, a breast had been removed nine years previously, and in the other a medullary carci noma had been removed from a breast two and a half years previously Neither case was seen until after detachment had taken place. In one case an eye was removed sectioned and subjected to a complete pathological examination

VIRGIL WESCOTT, M D

Scarlett H W New Vessel Formation in the Vitre ous Am J Ophth 19 6, 3 s 1x 521

New blood vessel formation in the vitreous is usually attributed to hæmorrhage or exudate due to lues or tuberculosis The author reports a case in which new vessels were found arising from the disk and extending out into the vitreous in the form of a twig of a tree, the usual signs of hæmorrhage and exudate were absent, and the general physical examination was negative. However, the patient had had some blurring of vision previously, which had been attributed to intra ocular hæmorrhage VIRGIL WESCOTT M D

Evans J N Angioscotometry Am J Ophth 19 6 3 \$ 1x 480

This is the most enthusiastic report that has appeared on the subject of plotting the scotoma caused by the shadow of blood vessels Others have expressed doubt as to the possibilities of this type of investigation or have reported failures The author describes his method of examination which is quite He makes the significant statement,

The width of the scotoma, either localized or gen eral did not necessarily correspond to the apparent width of the vessel mapped

The theoretical considerations are discussed at length, and errors in previous work are explained VIRGIL WESCOTT M D

NOSE AND SINUSES

Turner A L and Reynolds F E Suppuration in the Ethmoidal and Sphenoidal Sinuses Cavernous Sinus Thrombosis Death Autopsy J Laryngol & Otol 1926, xli, 44"

The authors report a case of cavernous sines thrombosis basal leptomeningitis, and subperiosteal orbital abscess. The findings made at autopsy and at microscopic examination of serial sections through the diseased area indicated that inflammation of the mucosa of the ethmoidal and sphenoidal air sinuses extended to the walls of these sinuses inducing a chronic necrosis and in penetrating the walls in fected the red marrow Later, it passed by way of the diploic veins to the cavernous blood sinus giving rise to acute septic thrombosis The septic thrombus in the blood sinus then extended along the tributary veins into the orbit dura mater, and Dia mater, and an acute purulent leptomeningitis developed

In a review of hospital material it was found that spontaneous intracranial complications occurred in o 6 per cent of the cases of accessory sinus disease and in a per cent of cases of aural disease source of the infection was the frontal sinus in 61 per cent, the sphenoid sinus in 17 per cent the ethmoids in 14 per cent, and the maxillary sinus in 3 per cent In descending order of frequency, the most common complications were brain abscess acute leptomenin gitis and infective thrombosis of the cavernous blood sinus MANFORD R WALTZ M D

Fraser R H Iodized Oil (Lipiodol) in Otolaryn gological Diagnosis—Opaque Injection Study of Thirty Five Maxillary Sinuses J Michigan State M Soc 1926 XXV

Fraser reports thirty five cases in which a mixture of one part of iodized oil and two parts of petrola

tum was used in the roentgenological study of the manulars sinuses. The sinus was punctured with a needle, all discharge present was washed out and air was then introduced to force out all of the solution. The head was then turned so that the ostium was uppermost and enough of the oil mix ture was injected to fill the cavity. When the cavity was full, resistance was felt or the phary ago scope showed the oil coming through the ostium. With the head in the same position lateral and postero anterior stereograms were made.

postero anterior stereograms were made. In disease the mucopenosteum widens. The cavities to be considered in the diagnosis are the cavity in the bone the cavity as filled and the filling defect. In the cases of suppurative manillary sinusistis which are reviewed the mucopenosteum thickening ranged up to 11 mm. When there is no tendency toward hyperplasia any plan of continuous aeration and drainage gives relief. A filling defect of 60 per cent decreases the likelihood of recovery under conservative surgical treatment. In chronic hyper plastic mavillary, sinusitis the maximal uniform hilling defect capable of resolution without curet taxe is probably under alone recent.

The method described may be used to determine the presence of abnormalities of the antrum or its imasson by dental cysts and other pathological processes the type of the pathological process in acute influmnation the type of treatment neces sary and what must be accomplished in chronic hyperplasas. Maxwooz R Wartz M D

Shea J J The Surgical Treatment of Acute Sup purative Paranasal Sinusitis J 1m M 15s 1926 lyxxvii 162

The author points out that the surgical treatment of acute suppurative paramasal sinusities is of the emergency type and should be carried out with as thitle trauma as possible Drainage is be to obtained with rubber tubing. In children the mavillary simus b most frequently involved. In marallary sinusities Shea obtains drainage by inserting a kinfe or trocar muto the antirum under the inferior turbinate and as far back as possible then enlarging a window with a rasp to accommodate a catheter inserting the catheter into the antirum over a trocar and using suction or irrigation.

The severe pain of an acute frontal sinusitis is due to the vacuum that is formed behind the escaping discharge. This may sometimes be overcome by alternate suction with gentle pressure or by passing a frontal sinus cathieter through the frontal duct or resecting the anterior end of the middle turbinate. In cases in which rupture is feared Shea uses a Lynch radical frontal operation incression opens the sinus with a small burn which are the sinus with a small burn containing the same with a small burn of a containing the fearer of osteomyelius of the frontal bone the anterior wall should not be attacked during the acute stage.

Sphenoiditis in children is diagnosed from head ache and the \ ray findings Shea recommends for

such cases irrigation with Dean's antral irrigating apparatus

Acute ethmoditis is rare in children but when it occurs it usually ruptures into the orbit and requires external drainage. In adults the cells should be punctured and drained by suction or irrigation. The middle turbinate should not be touched. In the after treatment, the channels should be kept open and protein silver salts employed.

This report was discussed by Lynch Skillern Lewis Shambaugh and Pratt Most of the views expressed were not in accord with those of the author the consensus of opinion being that operation is rarely necessary in acute sinusitis in children Mayropa R Wattz MD.

MOUTH

Mauclaire and Darclesac Noma with Perforation of the Cheek After Mercusy Injections Fixation of the Jaw Multiple Operations and Prostness (Noma avec perforation de la joue aprè injections mercunelles construction de la michore operations multiples et profibée). Bull de mém

Soc nat de chir 1926 lis 53 The authors report the case of a woman who following a series of mercury injections developed a severe mercurial stomatitis resulting in a periora tion of the cheek measuring 5 by 3 cm and com-plete constriction of the jaw. The right ascending ramus of the inferior maxillary was fixed by cutane ous cicatricial bands outside and by mucous bands inside The tongue was fixed to the floor of the mouth and on the right side to the internal surface of the horizontal ramus There was lateroversion of the inferior maxillary The patient was in a condition of serious cacheria, very emaciated and unable to speak She was fed through the perfora tion in the cheek. A period of six months was necessary to render her condition sufficiently good for operation

As the ascending ramus was so firmly fixed by cateriacial bands and retractile myositis of the internal and external masseter muscles this fibrous block was left intact and a Rizzoli osteotomy was performed in front of it to establish a neo arthrous of the hotzontal ramus. Fibrous tissue was interposed between the joint surfaces. Darcissace sapparatus with a cramofacult support (show an and and to correct the laterofevation of the inferior mavillar). The latero-erson was corrected in six months.

Internal debridement was then performed in several stages to free the mincous bands on the inner surface of the maxilla and liberate the tongue from the floor of the mouth. To preven recurrence rub ber pads were placed between the freshened surfaces. The perforation in the check, was then closed by Italian autoplasty with the use of a flap from the inner surface of the arm. Since the operation there has been considerable retraction of this flap which causes asymmetry when the mouth is opened but

the patient is now able to open her mouth to an extent of 4 or 5 cm without lateral deviation and the relation of the two maxillæ to each other is normal. The patient's speech can be understood and her ceneral health is good.

AUDREY G MORGAN, M D

PHARYNX

Razemon H A Septum in the Nasopharyngeal Space (Le clois-onnement du cavum) Arch internat de laryngol 19 6, xxxii 396

Since 1908 the author has noted that patients operated upon for adenoids or deviations of the eptum sometimes continue to complain of nasal obstruction after the operation. Careful examination in such cases has shown that the nasal septum was continued into the nasopharvina, dividing the latter more or less complictly into two spaces and decreasing its capacity and the height of the choanze. The septum consists entirely of bone or of bone and a fibrous membrane.

Moure and Brindel state that occasionally the vault of the na-opharynx is not plane or slightly concave and that the space may be divided from in front backward by the vomer which forms a sort of median ridge. Comparative anatomy shows that in anthropoid apes the pharvingeal tubercle is replaced by a ridge, and in certain other species of animals a membranous septum is found in the nasopharvny.

Razemon has seen the septum described in twenty eight patients including adults and infants and members of both sexes. He finds that removal of the septum facilitates breathing and improves the general condition. He has operated upon twenty patients ranging in age from 9 to 33 years and harever noted any ill effects from the operation. He performs it under local anasthesia or ethyl chloride anasthesia supplemented by local anasthesia.

Brief histories of eight typical cases are reported

AUDREN G MORGAN M D

NECK

Puccioni L. Histological Changes in the Thyroid in Animals Injected with Extract of Corpus Luteum (Modificazioni Istologiche della tutoide di animali iniettati con estratti di corpo luteo) Ri ital di giner. 19 6 in 273

The author performed experiments on animals to determine the changes brought about in the thyroid by the intraperitoneal injection of extract of corpus liteum. The experimental and control arimals were of the same weight and age. The corpus liteum of cows was used in most cales but makes the extract was obtained from human ovaries removed at operation. An amount of the extract equal to 0.50 gm of firesh organ was given daily for from twenty to thirt days.

The weights of the experimental and control arimals and the weights of their thyroids are given in tables. The animals lost neight rapidly even

after they had begun to eat a normal amount of food following the initial anorexa. The thy roods increased considerably in weight and presented hyper.emia and dilatation of the vessels. There was an apparent decrease in the size of the individual vesicles which was due not so much to a true decrease as to an increase in the size of the cells which tended to become cylindrical and occupy a large part of the vesicle. There were numbers of new formed vesicles with walls made up of cylindrical epithelium.

The colloid was decreased in amount and density and was not homogeneous as it is normally, but finely granular. Many vesicles showed epithelial cells scattered in the colloid and others becoming detrached from the basal membrane. In many areas the cell wall between two vesicles could be seen in the process of breaking down and allowing the two vesicles to coalesce into one. There was a consider able increase in the fuchsinophile granules both in the body of the cells and in the colloid. The hpoid granules were also increased. These are phenomena which indicate hyperfunction of the thy roid.

The author takes up the question as to whether this hiperfunction is due to a specific action of the corpus luteum hormone or to a touc action of the citract by virtue of its being a foreign protein. There are physiological and clinical facts which indicate that thyroid function is stimulated by corpus luteum and other facts which indicate that the thyroid like other endocrine glands is capable of hyperfunction in toxic or toxic infectious conditions of the organism. Fuccioni concludes that the hyperfunction of the thyroid following the injection of extract of corpus luteum is due partly to specific corpus luteum hormones and partly to the toxic action of the extract ties.

AUDREL G MORGAN M D

Pamper! R The Genesis of Intralary ngotracheal Struma (Zur Genese der intralary ngotrachealen Struma) Zischr f Hals Nasen u Ohrenheilk 1926 xiv 173

The author reviews forty-one cases of intra laryngotracheal struma including one of his own and forty reported in the literature

This condition is characterized clinically by dispinea and attacks of suffocation and occurs most frequently in women of middle age. Its cause is a tumor covered by normal mucosa which is located in the upper respiratory passages. Under certain circumstances the diagnosis may be made before operation by laryngoscopic and X ray examination.

The treatment of choice is latyagofssure or tracheofissure followed by extirpation of the tumor and the introduction of a cannula. The cannula may be removed after eight days. The author warns against treatment with iodine and endolaryngeal and endotracheal procedures.

In Pamperls case the diagnosis was not made before operation although the laryngoscope revealed below the vocal cord a hemspherical turnor the size of a mit which was covered by normal mucosa exterded out f om the posterior wall of the traches and in the X-ray picture caused a bilgard forward of the posterior tracheal wall. The pittent was a norman 30 year of age who stated that since she was 6 years old she had had p nodes attacks of dyspines chiefly in the spring and fall and who showed a light enlargement of the upper pole of the left lobe of the thyroid. She had no difficulty in swallouni.

in swatiowing.

As rection of the upper portion of the left lobe of the thyroid failed to relieve the dysponest matcher performed a low trachestomy. With his fing r inserted through the inciscion he then pal pated a soft turner the size of a small mut under the social cords on the right side. He secondingly prolonged the incision to the large standingly procured in the side of the second cords on the side of the current of the turner than the second base and measured a by 5 by 1.5 cm. Histological examination showed it to consist of a nodular struma containing colloid and showing some hyaline degeneration. The extratracheal struming resented the same institute.

The author does not agree with you Bruns that the type of tumor is due to the liberation of em bryological perminal cells. He believes with Paltaul and Bunds high that it is caused by the infiltration of thrord it use into the larny and trachea. In support of his theory is the fact that the base of the tumor is froud. If you Bruns theory were correct the neoptism would probably have a narrow base and would be or a more nobly noil character.

Jastrau (?)

Helmholz H F Exophthalmic Goiter in Child hood J 4m if 1s 10 6 lvxvn 157

Between January 1 1921 and March 1 1916 birty cases of exophthalmic goter in children 14 years of 192 or under were observed in the Mayo Clinic. The duration of the symptoms which varied from an months to eight years indicated that fre quently the condition is not recognized early or its seriou ness is not appreciately.

Nervousness was given as the first symptom in thirtien cases and as the coond symptom in seven cases. Evopthalmos was definite in twenty five and in one of the remaining five the characteristic tare was pre- nt. The stare is fully as important as the evophthalmos, and may be followed by evoph thalmos. Tachy ardia was pre-ent in every case other symptoms noted were enlargement of the thyroid bruit over the neck hyperhidrosis tremor loss of weight polyphagas, wakeness of the quadri ceps muscles gastro intestinal disturbances and dyspincas.

Metabolic rates we e determined in all but two cases. The birst determine ions were frequently high but as soon is the child became used to the test, sat slactory readings were obtained. The metabolic rates were markedly increased. The effect

of iodine in reducing the basal metabolic rate was very striking. In a few cases the improvement was so marked after the administration of iodine that thyroidectoria was unnecessary. In some cases the administration of iodine was continued after on ration.

The diagnoss of exophthalmic gouter in chillhood is based on (1) symptoms in liceting an increase in metablism such as tachycardia excessive perspiration and loss of weight in spite of an adequate food intake (2) toxic symptoms such as dequate food intake (3) toxic symptoms such as hypertriviability fatigue, exophthalmes and the gastro intestinal crises, (2) enlargement of the thy roid and a local bruit especially in the region of the superior thyroid artery (4) increased metabolic rate and (5) the reduction of the rate and rapid disappear ance of toxic symptoms after the administration of large does of toxic.

Hyperthyroidism mary occur in children as a result of hypertrophy and hypertpissa of the thyroid and after the administration of large doses of desiceated thyroid or thyroid. The introduction of the use of sodine by Plummer in the treatment of exphibilities may be a presented and advance. This treatment has resulted in surprising improvement in the priterial condition and has eliminated the necessity of practically all preliminary operative procedurs.

Of twenty four patients operated on two died one in crisis twenty four hours after the operation and the other from bronchopneumonia one week after the operation

Cattell R B The Elimination of Iodine in the Urine in Normal Patients and in Exophthalmic Golter Boston M & S J 1026 CKCV 60

Although relatively large quantities of nodine are given in the textiment of exophthalmic gotter only a small fraction of the drug can be stored in the thir rold gland. Indine is readily absorbed from imacous membranes. After single doses it is completely absorbed in five hour. Most of it is eliminated in the unite and faces but small amounts are found in the salival tears sweat milk, and other body fluids and effusions. Only a small amount is stored in the thyroid unless the gland is hyper plastic.

After single doses of iodine the elimination in the urine begins in from ten to twenty minutes and reaches its maximum in from one and one half to three hours. From 60 to 80 per cent is excreted in twenty four hours. Traces persist for several days. Determinations of the effect of iodine were made.

by the author in the cases of six normal persons and forty nine persons with exophthalmic goiter. Thirty minims of Lugol's solution representing approximately 250 mgm of todine were given daily.

In the subjects without goiter no unfavorable effects from the drug were observed. There was no change in the metabolic rate or the pulse rate. The amount of iodine extreted in the urine varied onsiderably from day to day, but in general the daily

total output tended to increase on a constant

In the cases of exophthalmic goiter the output of iodine in the urine was less than in the cases of nor mal persons especially after operation A sharp rise during the first few days after the institution of the treatment was followed by a gradual fall and maintenance of a lower level

The normal thyroid contains about 15 20 mgm of iodine. It therefore seems improbable that the daily administration of 30 m of Lugol's solution is neces sary for the desired effect. In view of reports of occasional unfavorable effects from large doses and of favorable effects from much smaller doses, and in view of the large quantity of the unutilized drug which is excreted almost immediately in the urine the smaller dosage appears to be preferable drops of Lugol's solution daily has given satisfac tory results However, it is possible that in the use of larger dosage more of the jodine may be taken in to the gland temporarily with some benefit In the light of our limited knowledge of the subject at the present time, it seems necessary to give an excess of the drug DOV L HUTCHENS, M D

Richardson, E. P. The Value of Iodine in the Surgical Treatment of Exophthalmic Gotter Boston W. & S. J. 1926 exciv, 1066

The administration of iodine in exophthalmic gotter is usually followed within a day or two by a lessening of the restlessness and emotional in stability Slowing of the pulse and a fall in the metabolic rate become apparent vs a rule within three days and reach their maximum within from eight to fourteen days. The vasomotor symptoms, the characteristic stare, and the nervous tension dimmish. The patient feels better and has a ten dency to gain weight. Apparently in no case is the condition made worse by a short period of this treatment.

Cattell has shown a remission of the hyperplastic changes in the pland and its return toward a resting state. Chemical examination shows an increase in its odine content. Although the administration of todine is not a satisfactory treatment for exoph thalmic goiter, it brings about a remission of the condition so that operation can be performed with less danger of a stormy postoperative towic reaction.

The indiscriminate use of jodine in the cases of patients with large thyroids is to be avoided as it may do harm rather than good. In adenomatous gotter jodine may stimulate the gland to toxic activity, and thereby increase the operative risk and produce organic damage.

The patient should be seen both before and after ione is given in order that an accurate diagnosis of the type of potter may be made. As the effect of the withdrawal of the iodine cannot be predicted, serious toxicity may develop if the patient is not seen again.

For the past three years, in the Massachusetts General Hospital, Boston, Lugol's solution has generally been administered in a dosage of from 15 to 30 minims daily and operation performed when the maximum jodine effect has been obtained

Richardson emphasizes the fact that although the administration of iodine represents a decided advince in the surgical treatment of exophthalmic gotter, it does not raise the patient's resistance to normal and therefore great cree is necessary in judging the schousness of the individual case and in determining whether a single or multiple stage operation is indicated. ANTHON F. SAVA, M.D.

Frazier C H and Mosser W B A System of Control and Treatment in the Toxic Goster 1nn Surg, 19 6 levens 51

At the University Hospital, Philadelphia every patient with gotter is registered in a Thyroid Clinic, the officers of which are representatives of the medical surgical, and X-ray services. Such an organization has the advantage of composite opinion, protects the patient from individual prejudices, and constitutes a means by which impartial statistics may be accumulated.

It is believed that at the present time surgical treatment offers the patient with exophthalmic gotter or toxic adenoma by far the best hope of recovery. Medical treatment is much less effective and X-ray treatment is curative in only a small number of cases

In the University Hospital every patient with tone goiter is subjected to a careful study by representatives of the various specialties and after the completion of a routine investigation in the Thyroid Clinic is treated according to the consensus of opin ion of the composite group. It is the custom also to have the internist from the Thyroid Clinic see every case at frequent intervals both before and after operation particularly for the care of any cardiac, renal or gastro intestinal complication.

Every torue patient is treated by the anoci associa tron technique and given absolute physiological rest Mild sedatives are prescribed as indicated. In se lected cases iodine is administered as a specific. In the anoci association technique, the patient is kept in ignorance of the fact that he is to be operated upon or is not informed of the time of operation. Mental and psychic disturbances are avoided. As a result, he withstands the operation better and the immediate postoper-time reaction is less severe.

Physiological rest is one of the most beneficial pre operative measures. It causes a gradual decline in the pulse rate and a corresponding decline in the basal metabolism

In cases of evophthalmuc goiter the pre operative administration of iodine is a routine measure. Its effect is remarkable, but is transient and the maximal improvement caused by it can be determined only by clinical observation. In general, this is reached after the administration of 5 minims of Lugol's solution twice a day for from seven to ten days. After this period iodine is either of no value or harmful. Benchical results from Lugol's solution.

an s ldom be duplicated if operation is delayed and no case of exophthalmic goiter has been perma nently benefited by iodine Iodine is not curative It is of value chiefly because by bringing about a transient improvement, it affords an opportune time

for surgical intervention

In cases of toxic adenoma jodine is often beneficial but the advisability of its routine administration is rendered doubtful by unfavorable reactions in some cases Indine should never be given in a case of nontoxic or toxic adenoma unless the patient is in a hospital being prepared for operation. Its indis criminate use in cases of non tour adenoma has alarmingly increased the incidence of induced hyper thy roidism

In the Thyroid Clinic the date of operation is selected after the patient has been at absolute physiological rest for several days at a time when the pulse rate basal metabolism and body weight have finally become stationary following steady im

The operation of choice is bilateral subtotal thy roidectomy but various factors often demand a series of operations for the desired effect. While iodine lessons the postoperative reactions it does not entirely prevent unfavorable reactions in well advanced or complicated cases. In young persons with moderately advanced disease who react favor ably to rest and todine the complete operation is uniformly successful

In the more advanced cases of older persons with a high basal metabolism emaciation and cardiac incompetence who do not react promptly to physic logical rest and iodine the choice of primary operation rests between unilateral lobectomy or hemithyroidectomy and bipolar ligation. If the reaction is only moderate following hemithyroidectomy the second lobe is removed after forty eight hours When the reaction is severe the second operation is postponed if necessary for several weeks until the weight basal metabolism and pulse are satis factory

Ligation i reserved for very advanced cases. This procedure gives temporary but often remarkable im provement At the end of ten weeks the patient returns for the second stage operation which may be a subtotal thyroidectomy or a hemithyroidec Occasionally unilateral polar ligation followed by ligation of the opposite pole then by hemi thyroidectomy and finally by subtotal thyroidec tomy are the various steps found necessary

In cases which are regarded as inoperable the injection of botting water or alcohol has been found

of temporary benefit

After operation the anoci association technique is continued until the immediate shock has subsided Water is given liberally and morphine is administered at regular intervals for twenty four The administration of iodine is continued until the danger period is passed. Postoperative thyrotoxicosis is rare. If a moderate toxic reaction occurs it is controlled by the administration of large quantities of fluids an increase in the quantity of todine blood transfusion and the application of

ice bags

Since the use of rodine the mortality in the Thy roid Clinic has been materially reduced. Previous to 1920 the mortality in toxic cases averaged 2 77 per cent whereas since that time there have been only two deaths in 262 operations a mortality of only o S per cent DONK HUTCHENS MD

Clute H M Hyperthyroldism Persisting After Thyroidectomy The Necessity for Postopera tive Examinations in Toxic Golters Surg Clin 1m 1025 vi 601

It is believed by the workers at the Labey Clinic that all patients treated for primary hyperthyroid ism should be subjected to repeated chinical examinations and metabolism determinations during the first year after thyroidectomy. In at least 95 per cent of such cases both clinical and metabolic evi dence of cure will be found from two to four months after the operation or much earlier

The presence of clinical evidence of persisting hyperthyroidism and an elevated basal metabolic rate four months after the operation generally means that too large a piece of hyperplastic thyroid tissue is still present. Lugol's olution may be given in such cases but it must be borne in mind that any improvement in the symptoms that may follow will be only temporary In Clute's opinion hyperthy roidism per isting six months after operation is a positive indication for the further removal of thy roid tissue STANLEY J SCEGER M D

Frugoni C Scimone \ and Comolii A Chronic Tetany in Adults and the Transplantation of Human Parathyroids by the Method of Voronoff (Tétanie chronique des adults et transplantation de parathyroides humaines selon la méthode de Votonoff) Presse med 1 ar 1926 vvviv 355

The authors report a case of tetany in a man 21 years of age Two hours after a meal of green prunes five years previously the patient was seized with acute gastro enteritis associated with an attack of tetany lasting for three days and characterized by painful cramps of the hands painful rigidity of the entire arm with flexion of the forearm and ab duction of the upper arm spasmodic rigidity of the lower limbs with the feet in the club foot position contraction of the abdominal muscles respiratory difficulty opisthotonos, diplopia and locking of the ians. At times the tongue was wounded by the treth

Five months later another attack occurred and thereafter the attacks were so frequent that the patient was often in the hospital. Sometimes they were separated by intervals of only two or three hours One night there were four They varied from slight ones to very serious ones with general convulsions and transitory loss of consciousness Occasionally the patient would fall and injure his

face

Examination showed moderate exophthalmos and nystagmus When the patient looked to the right, the left eye showed internal strabismus, and when he looked to the left the right eye showed a similar deviation Pressure over the point of exit of the fifth cranial nerve caused convergence of the eve balls and a diminution of vision. The lips were swollen and one tooth was broken The Chvostek sign was markedly accentuated At times the patient complained of dysphagia and a slight spasm of the glottis with a sensation of suffocation The thyroid was negative Tapping of the muscles of the thorax caused energetic contractions Trousseau phenomenon was very active Flexion of the extended lower limb on the pelvis as in the maneuver of Lasegne caused a painful contraction of the entire limb and especially of the foot The blood Wassermann test was positive

The reaction to pilocarpine was very active and that to adrenalin was moderate. The electrical excitability of the facial nerve was 0.8 to 0.9 ma and that of the cubital and median nerves 0.4 to 0.3 ma. Three determinations of the blood calcium

showed 9 2, 8 7, and 9 mgm per 100 c cm

During the three months the patient remained in the hospital he had numerous attacks of tetany many of which were accompanied by true epilepti form seizures. The intravenous injection of calcium chloride (roc cm of a roper cent solution) on eight successive days lessened them temporarily. Vigorous antiluetic treatment was ineffective. The condition was diagnosed as chronic tetany and epilepsy.

Under local anassthesia a parathyroid graft taken from an 18 year-old girl operated upon for diffuse parenchymatous goiter was transplanted into the tunica yaginalis of the testicle by the method of Voronoff This caused a sudden cessation of the

tetany and relieved the epilepsy

The authors believe that the chronic tetany was due to either a luctic lesion of the parathyroids or a primary sclerosis of those glands based on degenera tion or secondary hæmorrhage From the sixteenth to the twenty fifth days after the operation the te tany recurred, but then definitely ceased The persis tence of the Chrostel sign though it was greatly diminished indicated a remaining latent parathyroid insufficiency that the graft had not compensated The patient regained his general health and the ability to do active work. From fifteen to twenty five days after the operation the electrical excitabil it) of the facial nerve was o 8 to o g ma and that of the median and cubital nerves 04 to 03 ma Fifteen days after the operation the blood calcium was 94 mgm per 100 c cm Five days later it was 108 mgm and eighteen days later 100 mgm The pharmacodynamic tests remained as before the operation On palpation a month after the opera tion the graft seemed to be unchanged. After five months it still retained its primary form and size and was fixed to the tissues

The authors state that when there is no surgical material available for such a graft, the parathyroids

of a person killed by trauma or those of anthropoid ages may be used

Comolli considers parathyroid homografts pre ferable to heterografts He obtains his grafts from stillborn infants or persons killed in accidents. In the cadaver, the parathyroid is easily confused with a drop of fat At operation it is distinguished by its consistency and color Blood staining masks the tissues Comolli places the graft with fat in a sterile glass box, transfers it at once to the operat ing room and transplants it immediately into the tunica vaginalis of the right testicle local anæsthesia a 7 cm incision is made which enters the tunica vaginalis. The testicle is then exteriorized and the parathyroid fixed with fine catgut on the mesial side of the testicle in the scarified mesial cul de sac of the vaginalis near the entdidy mis The catgut fastens only the small masses of connective tissue and fat surrounding the parathyroid, it does not traverse the glandular tissue After closure of the operative wound the graft on the testicle is perceptible on pulpation WALTER C BURKET M D

WALLER C BURKET IL D

New G B Carcinoma of the Larynx Minnesola Med 1926 ix 365

In spite of educational measures and propaganda concerning carcinoma many patients with extensive inoperable carcinoma of the larynx are still being treated without a laryngoscopic examination. Such a state of rifiarrs is lamentable, especially because the diagnosis of carcinoma of the larynx is usually not difficult and the results of early surgical treatment of the lesion are excellent.

Epithelioma of the larvny should be removed surgically. In the individual case the operation is determined by the situation extent and malignancy of the leson and the patient's general condition. The grading of epitheliomata formulated by Broders is a definite advance in determining the treatment advisable for such growths in the laryny as well as elsewhere in the body. The microscopic grading will sometimes determine whether the operation should be a thyrotomy or a laryngectomy. A low grade epithelioma of the vocal cord may be cured by thyrotomy, whereas if the lesion proves to be an epithelioma graded 4 microscopically, laryn gectomy may be preferable.

New performs all major laryngeal operations under paracertebral anæsthesia, as advocated by Labat, Meeker, and Lundy This is a distinct advance over the previous general or combined general and local anæsthesia. The anæsthesia in most cases has been perfect, from both the operators and the

patient s standpoint

When thyrotomy and excision are selected a median incision is made. The hyoid bone is then split with bone forceps and its ends are retracted. The thyroid cartilage is sawed through with a small handsaw, the wings being held with special lary ngral forceps. The growth is then removed down to the cartilage. After tying of the larger vessels the wound

is closed. The cartilage itself is not sutured, but the thyroid hyoid membrane and the perichondrium are sutured with cateut.

When larvngcctomy is chosen a two stage operation is performed according to the technique used

by Judd

In the first stage a median line incision is made from the symphisis of the jaw to the manubrium. The hyoid bone is divided with bone forceps and the cut ends are retracted. The ishims of the thy roid is divided and the lary nx and trachea are skele tized. A piece of roidoform gauze is packed laterally to the trachea just below the circoid down to the coopingus as is done by Dismore but is not car company as a so done by Dismore but is not car to the company of the company of the company of the tion as is obtained when the gauze is carried byck of the trachea and is associated with less risk. The margin of the skin is sutured to the trachea with horomic catigut about the second tracheal ring at a point just below where later a tracheotomy will be performed. The rest of the wound is closed loosely. After from four to five days the trachea is opened by a parallel incision made usually just below the crociod cartilage without injuring the tracheal rings. The isodoform packs on either side of the trachea are not chained.

Trom eight to ten days after the first stage the larynx is removed from below upward and the pharynx is closed with two rows of chromic catgut sutures care being taken to secure accurate approximation. The trachea is sutured to the skin with silk worm and dermal sutures and the rest of the wound

is completely closed with catgut and ilkworm utures. No drains are employed. A gauze dre sing is applied over the upper part of the wound to support the pharyny.

The operative mortality in these cases is very low and the end results in the early cases are good

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Rosanov, W Traumatic Epilepsy and Its Surgical Treatment (Die traumatische Epilep ie und ihre chirurgische Behandlung) lerhandl d 16 russ Chir Kong Moscow 1925 p 312

Eighty cases of traumatic defects of the skull are reported, of which thirty five required operation for cortical epilepsy

The nature of this condition and the reason why it develops in some cases and not in others with apparently the same type of injury remain unde termined in soite of the world war

The author believes that the endocrine glands have something to do with the occurrence of jack

sonian epilepsy

In Rosanov's cases the operative treatment is preceded by a systematic ionization treatment of the region of the sear on the skull. This is carried out with a r per cent solution of sodium nodice at the cathode which is pressed directly against the scar. The anode moistened with physiological sodium chloride solution, is held against the opposite area on the kull. This treatment is intended to produce a diminution, vascularization, and vacuolization of the scar by which the surgical removal of the scar will be made easier.

The cranioplasty is done at a second sitting eight days after the first. It is performed preferably with fragments from the tibus which are transplanted with the periosteum and subcutaneous fat the latter

with the periosteum and subcutaneous fat the latter being placed directly upon the brain In an experience of many years the author had a failure from this method in only 17 per cent of the

In two cases the epilepsy was favorably influenced by the transplantation of parathyroids from a goat Petrov (Z)

Brown A The Results of Hypoglossofacial Anas tomosis for Facial Paralysis in Two Cases Surg Gynec & Obst. 19 6 xlu 608

Brown states that in the treatment of facial paralysis the best results as regards nerve continuity and psychic control are obtained from anastomosis of the hypoglossal and facial nerves Frazier and Spiller give the three desiderata as (r) restoration of the normal contour of the face during rest (2) restoration of voluntary motion in the muscles and (3) restoration of emotional expression. The close relation between the cortical centers of the hypoglossal and facial nerves makes these nerves the logical ones to be used

The author reports two cases in which he em played this method of anastomosis. The hypo glossal nerve was brought to the facial nerve external to the posterior belly of the digastric. The dascendens hypoglossi was sectioned and the central end sutured to the peripheral end of the cut hypoglossal. The result were fair.

The operation is but the beginning of the treatment Complete cooperation of the patient is essential Massage once a day and faradism twice a day after the tenth day are useful aids. Early signs of returning function may appear in from two to three months. After this time, constant practice before a mirror is essential. The restoration of the tongue may be less satisfactory but is of less importance.

The first case reported was that of a woman 43 vears of age who developed facial paralysis on the left side after the removal of a sarcoma of the middle ear followed by radium treatment two years previously. Two months after hypoglossofacial anastomosis she began to notice signs of returning function after faradic stimulation. A series of photographs show the patient before the operation and about five eleven, and seventeen months later. These demonstrate good restoration of fixel alsymmetry and voluntary motion with quite good return of emotional expression. Improvement is continuing

The second case was that of a grl 19 years of age who after a mastoid operation one year previously developed paralysis of the portion of the left facial nerve supplying the angle of the mouth and lower face. The facial anastomosis performed was of the same type as that in the first case. After three months signs of beginning return of function appeared and have continued to date. The article in cludes photographs of the patient before operation and six months later. The results seem excellent

The anatomical relations of the operation and the probable mechanism of regeneration and restoration of function are shown in illustrations

ALBERT S CRAWFORD M D

SPINAL CORD AND ITS COVERINGS

Lindblom A F On the Effect of Lipiddol on the Meninges Acta radiol 19 6 v 129

The subdural injection of relatively large quantities of lipiodol into rabbits gave rise to an acute leptomeningitis which was evidenced histologically by an inflitration of cells (mainly leucocytes) and usually subsided in two or three weeks. In one of seven rabbits it resulted in death. After the subsidence of the inflammation no histological changes were to be noted even when large quantities of lipiodol remained.

After the intralumbar injection of from 5 to reccm of lipiodol in man acute leptomeningitis

develops with a marked increase of lymphocytes in the lumbar fluid. The meningeal symptoms subside within two weeks after the injection.

Ebaugh F G and Mella H The Use of Lipiodol in the Localization of Spinal Lesions 11 The Local and Systemic Effects of the Injection of Lipiodol into the Subarachnoid Space 4m J M Sc 1936 clynt 117

The authors tudied thirteen patients in an effort to determine

r The local effects of the injection of lipidal—mainly the duration of the asceptic meningitis if any as determined by spinal fluid cell changes quantitative poten determinations and irritative phenomena found in the neurological examination. The general systemic effects of the injection

3 The length of time required for the lipsodol to pas from the disterni migna to the lumbar sac and whether any lipsodol is held back by the posterior roots folds or pockets of the arachmod thrirbly leading to an inaccurate diagnosis of subarachmod

block They obtained definite evidence that an a optic meningitis was produced following the introduction of lipiodol into the spinal ubarachnoid spice Thi reaction however was of transient duration all of the patients recovering within a period of three days The occurrence of frequent bloody type in lumbur purcture after the in ection as peared to indicate a generalized congestion of the vessels. Four of the patients complained of p un in the lege and in three cases there was a shaht increa e in the temperature following the injection of the drug Nausea and he idache were present in one case, and a leucocy to sis was noted in four cases. Most of the patients showed some general restle sness. In two cases there was evidence indicating that the lipiodol v as held back by the posterior roots of the lumbar region. In two ca es in which there was no sub arachnoid obstruction the liniadol reached the end of the lumbar sac a few seconds after the injection

Verga P and Dazzi A An Unusual Case of Race mose Cysticercus in the Spine (Di un raro caso di cisticerco ra emoso a localizzazion pinale) Poli clin Rome 19 / viiii er med 63

STANLEY | SCIGER M D

The case reported in this article was that of a man of 50 vers whi had been addicted ince early wouth to alcohol and sexual excesses. At the age of 10 years he hal gonorrhear and at the age of 16 years he hal gonorrhear and at the age of 16 years he contricted syphilis. When he was 34 years old he began to have landnating panns in the lower limbs and latter three were associated with a feeling of great weakness. Subsequently there was sexual debility which progressed to complete impotence. In the fall of 1032 constant urinary incontinence began. The patient was then so weak that he was secreely able to stand

Examination revealed the Argvll Robertson sign Romberg s sign a zone of hypesthesia limited to the mammilary region ataxia of the lower limbs and absence of the patellar and Achiles t nadon refleves During the last few months of his life the patient had mental disturbances greatly re mbhigh those of paresis viz delusions absence of emotional reactions failure to recognize his condition and py chomotor agithton. The clinical diagnosis was tabonaresis.

Autopsy revealed a few cysticerous cysts scattered in the lumbar and dorsal portions of the spine a cystic mass in the ciuda equina and degeneration

of the posterior cords

There were certain differences between the symp toms in this case and tho e of syphilute tabes. The first disturbances of sensation were limited entirely to the lower limbs and remained so limited for twenty years while in tabes the affection of the lower limb is generally preceded by involvement of the first dorsal roots with girdle pain in the upper part of the thorax and pain along the inner surface

of the arms and the prodromal stage is much shorter. In the author's case there was atrophy of the muscles of the lower limbs which could not have been due to the reduced state of nutrition since if the latter had been the cause the other muscles of the body would have been affected. The degeneration of the posterior cords was integular. This degeneration and that of the anterior cords was diegeneration and that of the anterior cords was due to attend the degeneration of the posterior cords. The anterior cords was died to the control of the

Tabes is not an independent distase but a chinical syndrome due to degenerative atrophy of the cord which may be caused by other toxins as well a those of syphilis. In alcoholism nicotinism ergotism and pellagra there may be symptoms similar to those of tabes.

The case reported is the third case described in which tabes was associated with spinal cysticercus. While the mental sign may have been due to the intoxication caused by the pira ite the syphilis from which the patient had suffered may have been partly responsible.

APPREY G. MOFOLK M. D.

Ssamarin N N The Healing of Aseptic Wounds of the Spinal Cord (Ueber die Heilum aseptischer Wunden de Rueckenmarks) Verhandt d 16 russ Chr Korg Mo cow 1925 p 117

In experiments made on forty four rats and rab bits partial section of the spinal cord was done and followed by tamponade to prevent the formation of a hemations. In the ribbits fibroblasts were tound in the cicatrix after three or four day and resorp tion cysts after seven days. The regeneration of the nerve fibers was an irregular process. It inst appeared after three weeks but after from thirty to sixty days the regenerated nerve fibers disappeared. After mother sixty days it apan appeared and as the process of resorption was then less pronounced the regenerated nerve fibers disappeared and as

five months rather numerous regenerated nerve fibers and even nerve bundles were found traversing the scar The nearer the center of the cord, the greater the number of regenerated fibers. Regen erated nerve fibers were seen also in the degenerated areas of the spinal cord above and below the scar The grav substance showed a tendency to regen erate, but only to a slight degree

KORNUANN (7)

SYMPATHETIC NERVES

Syncope Collapse and Shock as Re lated to the Sympathetic Nervous System (Ohnmacht Kollans und Schock in ihren Beziehun gen zum vegetativen Vervensystem) med Wchnschr, 19 6 lxxui 1 66

The author first briefly describes the signs of syn cope, a transient state of unconsciousness ushered in by cerebral anamia and representing a reaction to psychic stimuli of various types A habitual tend ency to such a condition can be no more denied than the probability there is also a nervous factor or a personal predisposition. Most probable in such cases is increased lability of the vascular system

With regard to the pathogenesis and the site of the syncope in the brain the author states that many considerations refute the teaching that the cause is a vascular spasm in the cerebral cortex. Among these is the fact that motor and sensory cortical phenomena do not usher in the attack but appear only after syncope has fully developed. Moreover Reichardt's investigations indicate that the brain tem and not the cortex is the seat of conscious ness-a location which is near the sympathetic centers for vascular tonus, sweat secretion, pupil lary reaction and sleep all of which are predominant Syncope is phenomena in syncope Coenen says not a cortical but rather a basilar sympathetic syn drome of the brain stem called forth by psychic reflex stimulation of the large sympathetic central station situated in that region

Collapse 1e, collapse of the vital functions the symptoms of which Coenen describes has as its cardinal sign a disturbance of the circulation Car diac weakness too great exertion, di ease of the heart muscle valvular failure and the action of torins on the heart muscle may cause collapse Somewhat different is the hæmorrhagic collapse fol lowing the loss of blood in this condition the force of the heart is at first not affected and the vessels are contracted by increased activity of the vaso motor center, but soon the heart becomes empty and the organic circulation suffers Consciousness is lost last and is recovered even before the pulse can be detected. In infectious diseases collapse de pands more upon vasomotor failure than cardiac weakness with a marked fall in the arterial pressure the organism bleeds itself into the flaccid and max imally dilated splanchnic area. In toxic collapse (pancreatic necrosis, tissue injury burns, anaphy lactic collapse) the marked decrease in the blood

pressure is to be ascribed to central vascular The drop in the temperature in collapse cannot be explained by circulatory weakness and the fall in the blood pressure alone Diehl has shown that in different intoxications the fall in the temperature is independent of the drop in the blood pressure Therefore a direct central poisoning must be the cause This would explain also the sweating and the facial expression in this condition

Shock occurs very suddenly. Its causes are a severe nervous irritation of a peripheral sensory origin (severe injuries) or a central psychic origin (strong mental perturbation) The chief symptom of this condition in which the sympathetic persons system is affected is a rapid fall in the blood pres sure Its neurogenic etiology and instantaneous on set differentiate shock from collapse even though the syndromes of the two are very similar author discusses the many theories of shock. The eare difficult to evaluate because in the foreign litera ture the picture is not clearly defined and collapse symptoms are included in it. The author rejects the cardiac chemical and acapnia intoxication the ones believing that the blood vessels are of chief importance in the symptoms. His theory is based upon the assumption that a too strong centrinetal nervous impulse jumps across 'to he sympathetic system paralyzes the vascular system and thereby lowers the blood pressure and diminishes all vital functions. As proving the correctness of this as sumption he cites the Goltz palpation experiments and the division of the splanchnic nerve by Ludwig and Cyon The resulting bleeding into the splanch nic area and the drop in the arterial blood pressure caused the menacing symptoms in the circulatory system which constitute the syndrome of shock. In just what manner the vascular paralysis occurs has not yet been satisfactorily explained Abdominal hock from mechanical causes in man Coenen attrib utes to a central segmental vascular reflex rather than a purely peripheral cause. The stimulus lead ing to abdominal shock in man may be mechanical but also chemical (perforation of an intestinal picer) the consequent perforation peritonitis at first causes the primary reflex paralysis of the abdominal ves sels through the secondary toxic vascular paralysis and in this manner shock changes to collapse with out any change in the external appearance. In Goltz's experiments the abdominal phenomena run parallel with contractions of the vessels of the extremities so that abdominal shock differs from the other types of shock which are characterized by general vascular paralysis Shock may be caused by severe pain in any part

of the body if a number of peripheral nerves are subjected to great irritation. Blunt superficial tis sue injuries are therefore more quickly followed by shock than circumscribed sharp or penetrating in juries. When during long drawn out mutilating operations a sudden and marked drop in the tem

perature occurs it may be associated with the marked reflex fall in the blood pressure which characterizes shock but it is possible also that the peripheral stimulus has paralyzed the temperature center

In addition to the quet or forpid shock there is the restless shock denied by many characterized by great unrest aruety and delirium which can not be attributed to loss of blood. Closely related to this is the psychic or emotional shock with disturbances (Ooseloousness (Bonhoeffer) or without such disturbances (Baelz). For this type of neuro pathic shock a nervous anlage is nece sary such for example as increased vascular lability. It has not heen proved that psychic shock can cause death in the case of a healthy person. On the ground of Muellers claim that the vascular center hes near the center governing temperature and sweating in the middrain it may be assumed that the localization of shock is in the middrain in the critical states.

matter of the third ventricle The author next discusses briefly the treatment of these conditions In syncope this consists simply in placing the patient in a horizontal position. In cardiac collapse heart stimulants are to be used In vascular collapse in the infectious diseases the latter would be of no value and it is necessary to raise the blood pressure by increasing the central tonus by the use of caffein camphor or strychnine and the peripheral tonus by the use of adrenalin or hypophysin Incollapse following hamorrhage the subcu taneous or intravenous administration of a liter of Ringer's solution or better blood transfusion is the sovereign remedy. In true wound shock new trauma must be avoided and the blood pressure must be raised before any intervention is undertaken. Heat and morphine are also indicated. Although theoretically the treatment of shock and collarse are different in actual practice difficulties are met since the symptoms of the two conditions are so similar

At the basis of all of these syndromes there are very complex organic processes which require care ful clinical investigation particularly from the point of view of the knowledge recently gained concerning the sympathetic nervous system [Massew (Z)]

Forbes A and Cobb S The Physiology of the Sympathetic Nervous System in Relation to Certain Surgical Problems J Im II Ass 1936 IXXXVI 1834

Ranson S W The Anatomy of the Sympathetic Nervous System with Reference to Sympathec tomy and Ramisection J 4m W Ass 1926 [xxxv1 1886]

FOREYS and Cour do not accept the hypothesis of Langelaan that in voluntary muscle there are two separate mechanisms—a contractile mechanism and a plastic mechanism. They believe that this theory was due to a misunderstanding of the work of previous investigator and that therefore Ifunter and Royle's work has an unsound basis Hunter assumed Langelaan's distinction to be well founded and en deavored to show that the plastic element in tonus is eliminated by sympathectomy while the contractile element is not disturbed. On the basis of Hunter's theory Royle developed the operation of ramisection by which he asserts that he has relieved certain cases of spastic paralysis

In recent experiments on seventeen cats subjected to sympathectomy either before or after decerebra tion. Forbes and his co workers found that the rigidity of decerebration was essentially unaffected by the operation On the other hand Kuntz and Kerper seem to have successfully repeated Hunter s work Orbeh reports however that simultaneous stimulation of the sympathetic and omatic nerves adds nothing to contraction until fatigue develops but that with the onset of fatigue sympathetic timulation increases the contraction evoked by somatic stimulation. The sympathetic effect show a much longer latency than muscular contraction evoked by motor nerve stimulation a latency which approximates that of the action of the sympathetic nerves on the heart

These observations suggest that the nerve in pulses reaching the muscle fibers by this channel act on them in a different manner from the ordinary somatic motor nerve impulses. Apparently they do not stimulate the muscle that is they do not cause contraction. Net it is conceivable that at the syn pathetic nerve endings a chemical effect of some sort is produced which alters the state of the muscle and the synthesis of the state of the muscle and the synthesis of the state of the st

In any case Forbes and Cobb believe that there is no justification for distinguishing two components contractile and plastic in the tonus of minimalian skeletal muscle and that the effect of ramisection on snasticity has been over estimated

RANSON first reviews the anatomy of the sympathetic nervous system. On the basis of Edge worth's work on the dog his own on the cat and that of Jonnesco and Ionescu on the human subject he concludes that the innervation to the heart is from the middle and inferior left cervical gangha Ao explanation is offered for the first that avulsion of the left superior cervical gangha alone of the reversible from annua pectors.

It is pointed out that the innervation to the blood rescels of the extremities is by way of the spinal nerves which it follows to the subcutaneous tissues where branches are given off for the innervation of the atterioles. Therefore stripping of the larger vessels is an illigical operation and the beneficial results that occasionally follow such operations remain unexplained. If DM DAUPORT MD

McNealy R W Periarterial Sympathectomy J 1m M 1ss 1926 lxxxv1 1968

Cutler E C and Fine J Sympathectomy In Angina Pectoris Report of Cases J Am W iss 1026 lvvvi 1972

McNeals states that periarterial sympathectomy has had a stimulating influence on research regard ing the sympathetic or autonomic nervous system and has served to weld a closer bond between the neurologist and the surgeon However, he is not prepared to accept either the theory or the practice of the present operation. His own experience as well as that of other workers suggests to him that the operation should be discarded. He believes that further study of the sympathetic nervous system and of the pathogenesis of various vascular disturb ances should be made before operative procedures are resorted to Periarterial sympathectomy carries with it some technical difficulties and may be accomnamed by serious mishaps such as wound infection perforation of the artery, secondary hæmorrhages false aneurism, thrombosis of the artery and gan grene of the extremity Ramisectomy and ganglion ectomy have a still greater operative risk

CUTLER and FINE report seven cases of sym pathectomy for angina pectoris. These show that a single or bilateral extirpation of the superior cervical ganglion or of the entire cervical chain and first dorsal ganglion will frequently give temporary com plete or partial relief and often will fail The com plete operation is less likely to fail entirely than simple superior ganglionectomy. In one case the pain returned after the simple operation, but was apparently relieved following the secondary removal of the stellate ganglion on the same side In certain cases it appears that what was considered an angina on the left side before operation was converted into an angina on the right side by the Jonnesco pro cedure on the left side. This means, however, that the angina on the left side was relieved and the angina on the right side, which was not noticed by the patient pre operatively because of its compara tive insignificance then remained Contrary to our conception of the anatomical factors involved, from which it would seem that proper sensory nerve abla tions ought to stop the pain immediately, certain patients who eventually will be totally reheved will still have pain for a few weeks or months even after a complete bilateral Jonnesco procedure, although as a rule it will be less severe than before the operation This fact is evidence of the insuffi ciency of our knowledge concerning the sensory in nervation of the heart

Cutter and Fine have in no case observed any deleterous effects of sympathectomy on the cardiac capacity. While a few surgeons have expressed the opinion that it is particularly dringerous in syphilitic angina, Cutter and Fine find this belief difficult to understand. They admit that a general anasthetic and prolonged surgical trauma may well be deleter ous but call attention to the fact that these are matters that enter into consideration in any case of syphilitic cardiac disease in which an operation is contemplated. They believe that when these dangers are duly cared for, a case of syphilitic angina should benefit from the operation as certainly as any other type of case.

The cases in which the operation is most dangerous in the experience of Cutler and Tine are those with

advanced cerebral arteriosclerosis combined with severe coronary disease Patients with these conditions do not tolerate any surgical procedure well, and it seems that sympathectomy makes them den nitely were although it may relieve the pair.

nitely worse, although it may relieve the pain Among the most distressing postoperative com plications of the procedure are the by effects, which seem to be directly proportional to the degree of nerve resection. The Horner syndrome is a minor defect that becomes compensated in time Partic ularly annoying are the pains that are felt in the shoulder, neck, face, jaw and arm on the side on which the operation was performed. In the 13w. especially along the ramus, and in the temporo mandibular joint, severe pain is experienced especially at the beginning of a meal and in severe cases may persist throughout the period of food ingestion In the shoulder or scapula and down the arm, partic ularly at night, there is a constant ache which is difficult to relieve except by narcotics or local coun terirritants Areas of hyperæsthesia on the face. ear, or neck vary, as do those of anæsthesia, with the amount of injury done the cervical plexus during the operation. These symptoms vary in severity and extent of distribution in different cases, and may be so distressing as to make the cure seem worse than the disease. Their transitory nature suggests that they may be due to the altered vasomotor control of the organs and tissues deprived of their involuntary nerve supply, or to irritation of the somatic sensory neurons of the spin il and cerebral ganglia as the result of neuronic degeneration of the severed sym nathetic nerves

That surgers will come to have a definite place in angina pectoris seems promising, but it is impossible as yet to say definitely which is the most desirable procedure of those proposed Cutler and Fine tend to favor the partial Jonnesco procedure, unilateral or bilateral depending upon the nature of the case

Unfortunately, the condition is not susceptible to laboratory investigation beyond the establishment of the extrnisic nerrous connections of the heart. It should be remembered by all who would shoulder the responsibility of operating in cases of angina pectoris that treatment is still in the experimental stage and should be attempted only in carefully selected and studied cases which can be kept under observation until the end results are known

STANLEY J SEFGER M D

Okinšewič A and Amossov, A Bilateral Extrupation of the Upper Sympathetic Ganglia and Periarterial Sympathectomy on the Carotids in Chronic and Epidemic Encephalitis with the Parkinsonian Syndrome (Versuche bilateraler Entfernung des oberne sympathischen Ganglions und periarterieller Sympathektomie an den Caroti den bei chronischer und epidemischer Encephalitis mit Parkinsonschen Erscheinungen) Verhandl d 16 russ Chr. Kong, Moscow, 1925, p 341

The authors performed bilateral extirpation of the upper sympathetic ganglia and periarterial sympa

thectomy on the carotids on six men and three nomen with akinetic hypertonic forms of disease characterized by greatly diminished mobility and hyperkiness in the form of a tremor. The approach to the lateral column and to the vessels was made by an incision along the anterior border of the sterno clerdomastod muscle

The immediate favorable effects of the operation were more active minic motions a greater range of motion and quicker activity diminution in the cataleptic symptoms reduction of the vasomotor and secretory disturbances and more lively psychic

powers
The unfavorable results included ptosis head ache toothache sweating of the upper portion of the

body and increased blood pressure

There was no effect on the tremor or the spinal (pyramidal) symptoms such as clonus and urinary incontinence. The operation should be performed only when more conservative measures fail.

PETROS (Z)

Davis L and kanavel A B Sympathectomy in Raynaud s Disease Erythromelalgia and Other Vascular Diseases of the Extremities Surg Gync & Obst 19 6 xhi 720

Most experimental evidence seems to show that the motor and sensory nerves to the peripheral vessels run only shore the trance in the perviscular short the sensor of the peripheral sensor of the sensor of the sensor of the trements reported by Leriche and others have not been supported by experiments on animals even those carried out by Leriche Nevertheless the climical results cannot be lethil demands

In the cases of patients subjected to a sympa thicknown for spatienty Davis and Kanaval noticed in the extremity operated upon a vasodilatation and rise in temperature which lasted for about two weeks. On the basis of this observation they removed the stellate ganglion or lumbar sympathetic chain in one case of erythromelagia and two cases of Rayanada sheases. The operation was followed by the companient of the companient

The article 1 concluded with the following state ment

There are many physiological factors concerned in the control of the peripheral circulation of which the vissel musculature and caliber are but a part. In the present state of our knowledge concerning the pathology of the group of vascular diseases known as vasomotor neuroses we are unable to cyplain completely the effects produced by removal of the sympathetic innervation to the ertremity. Trace? J Pervel M D

MISCELLANEOUS

François J Lumbosacral Laminectomy in Retention and Incontinence of Urine Due to Spina Bifida Occulta (De la laminectomie lombo sacrée dans certaines rétentions et incontinences du mentione dues au spina bifida occulta) J durol méd et chir 19 6 xu 161

François reports five cases of urinary disturbances due to spina bifida occulta

Case I was that of a grl II years of age who had had nocturnal incontinence of urine since infancy The urine was normal and the Wassermann reaction negative All of the classical treatments had been tried without success

\ ray examination revealed an occult spina bifda of the first sacral vertebra. Between the fifth lum bar and the first sacral vertebra there was a trans verse band of yellowish white tissue I cm wide the right half of which was adherent to and compre sed the dural cul de sac. The cul de sac showed pulsa

tion above this band but not below it

When the ligament was resected the entire cul de sac pulsated. For five months there was no involuntary urination at might but at the end of that time it recurred gradually. I ossibly the compression recurred. Another examination by sub arachinoid, injection of hipsoids will be made.

Case 2 was that of a girl 15 years of age with nocturnal incontinence of urine since infancy. In this case also the urine was normal and the Wasser

mann test was negative

Roentgenograms showed a hiatus between the first and second sacral vertebræ Lipiodol injection revealed two ligaments one between the first and second sacral vertebræ and one between the fourth and fifth jumbar vertebræ

Laminectomy of the fifth lumbar and the sacral vertebræ was done. In the four months since the operation there has been no further involuntary urnation.

Case 3. The patient was a girl of 15 years who had and noturnal incontinence of urine since infanci. The roentgen examination with hippodol showed two constrictions of the spinal canal one between the fourth and fifth lumbar vertebrae and one between the fifth humbar and first sacral vertebrae. The ligaments were resected after sacral lampactomy. In the three months were resected after sacral lampactomy in the three months since the operation involuntary unnation has occurred only twice

Case 4 The patient was a girl of 17 years who had had incontinence of urine since infany. Several treatments were without result. The urine was nor mal and the Wassermann test negative. Lumbo sacral roentgenography showed an anomaly of the arch of the fifth lumbar vertebra and an occult spina bifida of the first sacral vertebra and succult spina highest of the physical secret vertebra continued in the product of the produc

A curative injection of 10 c cm of lipiodol from below was tried without success Laminectomy of the fifth lumbar and sacral vertebre showed a ligament extending almost uninterruptedly from the fourth lumbar to the second sacral vertebra. The operation was long and difficult because of the intimate adhesion of the ligament to the duri mater. The ligament ran up under the arch of the fourth sacral vertebra, but as there was a copious venous hemorrhage when this arch was cut the operation was stopped. In the month since the operation there has been no involuntary urination.

Case 5 was that of a woman 20 years of age with a history of dysmenorthea, stubborn constipation for the past four months which sometimes persisted for a week, frequent pain on urination, turbidity of the unne, and finally retention of urine for twenty four hours which necessitated catheterization. Three months ago there was a terminal hamaturia

The urine was turbed but was negative for tubercle bacilli. Physical examination revealed cystutis, a prelonephritis from colon bacilli on the left side, and a small cyst of the left ovary. As treatment for the cystitis and py petitis was without benefit, a gyne cologist recommended extirpation of the cyst of the ovary as he believed that it might be causing the cystitis through pressure. Beginning cight days before this operation was performed urination ceased and catheterization twice a day became necessary. The operation did not cause any improvement and when the patient was sent to the author for examination she had had complete retention for two months.

Examination by the author revealed pain on pressure over the spinous processes of the fifth lumbur and first sacral vertebræ. The kidneys were normal Neurological examination showed absence of the plantar reflex on both sides, of the external anal reflex, and of paresis and amy otrophia the presence of dorsal hypæsthesia of the toes and the anterior half of the external border of the left foot, evaggeration of the Achilles reflex on the left side, analie closus on the left side, normal patellar reflexes, and pain on pressure in the left sacral region (second and third segments)

The subarachnoid injection of lipodol showed an occult spina bifida of the first acaral vertebra with marked constriction below this point. Luminectomy of the fifth lumbar and sacral vertebra wa. done under general anaesthesia. Beneath the spina bifida of the first sacral vertebra there was a vellowish ligament extending across and compressing the canal. This hrament was removed.

Forty eight hours after the operation the patient was able to empty her bladder completely the constipation had ceased and the slight disturbances of sensation and of the reflexes had disappeared. Up to the time this report was mide, four and one half months after the operation, the improvement had persisted. This is the first case known to the author of complete retention of urine due to spina bifida and cured by operation for the latter condition.

Trançois believes that patients with idiopathic in continence of urine which has persisted beyond puberty and resisted all ordinary methods of treat ment should be examined roentgenologically for occult spina bifida and by Strard's method of subdural injection of lipiodol for compression of the spinal canal. If compression is found laminectomy should be done. The same method should be employed in cases of retention of urine when other causes have been excluded and when there is no affection of the general nervous system.

ALDREA G MORGAN M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Coventry W A The X Ray and Metastasis in Breast Cancer Minnesota Med 1026 1x 316

In the five year period from 1020 to 1025 inclusive Coventry operated on forty seven patients with car cinoma of the breast Of this number 60 per cent are dead and 10 per cent of those who are living are known to have a recurrence. Of those who are dead all but two died of carcinoma metastases. Of those who are living and have a recurrence one has a re currence in the skin on the side operated upon two have carcinoma in the other breat two have a supraclavicular recurrence and one has involvement of the spine

The operation performed in all cases except two was radical In 80 per cent of the cases preliminary roentgen irradiation of medium intensity was given over the breast and gland bearing area. In 95 per cent postoperative irradiations were given the number varying from two to twelve. Coventry has never seen the occurrence of rapid metastasis follow ing irradiation Rapid spread is probably caused by intensive deep ther ipy which lowers the patient's resistance

The sites at which metastases are formed most frequently are (1) the axillary glands (2) the clavic ular nodes (3) the chest wall and mediastinum (4) the peritoneal cavity (5) the skin and (6) the skeletal system

In 95 per cent of the cases reviewed there was axillary involvement before the operation Coventry does not regard this as a contra indication to sure cal treatment

When metastases are present in the clavicular nodes it is probably best to consider the condition moperable

I ulmonary involvement occurred in two cases and liver involvement in four Local recurrence in the skin occurred only once in this serie whereas previ ous to 1920 it was found quite often. The \ ray probably was important in checking it

Metastases to the skeletal system occurred fre quently The involvement of the osseous system is evidenced by tenderness over the bone often before there is roentgenographic evidence of its

These cases should be considered inoperable. The treatment of metastases with the \ ray has not been satisfactory

Coventry is of the opinion that all lumps in the breast should be removed even when they are appar ently benign. He does not believe that irradiation accomplishes anything except the prevention of local recurrences and alleviation of the pain

ALTON OCHSNER M D

TRACHEA LUNGS, AND PLEURA

Use of Injected Iodized Oil in the Roentgen Ray Diagnosis of Laryngeal Trache al and Bronchopulmonary Conditions J 1m M Ass 1926 lvxxv1 1879

The methods most commonly used to introduce a contrast medium into the bronchial tree are injection into the trachea through a laryngeal cannula and injection through a needle passed into the larvax through the cricothy roid membrane

For the injection of iodized oil-either the French preparation lipiodol or the German product iodinin-Iglauer uses a special intubation cannula consisting of a shortened metal O Dwyer tube with a longitu dinal groove cut in its back wall into which a small bore secondary cannula is soldered. The accessory cannula (designed to convey the oil) is somewhat longer than the O Dwyer tube and terminates above in a nipple over which a long piece of rubber tubing is slipped. Below the secondary cannula extends in a semicircular prolongation beyond the O Dwyer

Preliminary to the examination a dose of morphine or codeine is administered and in the cases of adults the larvnx is anæsthetized with 10 to 20 per cent cocaine A long rubber tube is attached to the oil cannula and the intubation tube is threaded in the usual manner for safety and extraction The intuba tion tube carried on an obturator is then introduced into the larvax under the guidance of the laryagos come mirror. In the cases of young children it is inserted by touch Through the rubber tube which projects from the mouth a small quantity of cocaine solution (2 per cent) or procaine (3 per cent) is in sected into the trachea to abolish the cough reflex With the cannula in position the contrast medium is injected by means of a syringe and the patient placed in the position necessary to fill the portion of the bronchial tree which is to be studied

Iglauer has used this procedure to study the lary ny as well as the bronchial system. In the cases of tracheotomized nationts a finger cot filled with the contrast medium is drawn into the larvax from above downward A lateral roentgenogram then shows the

obstruction very definitely

In cases of bronchiectasis a positive diagnosis can be made easily after the injection of the contrast medium

A pulmonary abscess may be difficult to fill with the contrast substance as its opening may be very

Iglauer does not believe the procedure is con traindicated in tuberculosis The only contra in dications that he recognizes are hyperpyrexia and cachevia

Occasionally the injection of the oil is followed by dyspinces and frequently by a slight febrile reuction and a temporary increase in the expectoration. The oil is eliminated chiefly by expectoration, but a small amount is absorbed.

In the discussion of this report, BRONFIN stated that he uses the intratracheal method and has never noticed any unfavorable effects from it although in one case of bronchiectasis the oil was still present sixteen weeks after the injection. Nevirtheles, the possibility that the presence of the oil may cause an infiltration in the pullmonary tissue must always a

CARMODY reported that he never uses indized oil in tuberculosis because he does not wish to employ the bronchoscope in this condition

be kept in mind

ALTON OCHSNER M D

Blalock A Harrison, T R, and Wilson C P Partial Tracheal Obstruction An Experimental Study in the Effects on the Circulation and Respiration of Morphinized Dogs Arch Surg 1026 viii, 8t

In experiments on dogs anesthetized with mor plane the authors studied the effect of partial respiratory obstruction on the pulse rate respiratory rate minute ventilation, oxygen consumption, oxygen and carbon doude contents of the arterial and venous blood, hydrogen ion concentration, and circulatory minute volume

Partial obstruction of the tracheal cannula caused slow shallow breathing

An increase of the carbon dioxide content of the arterial and venous blood occurred with moderate degrees of obstruction, whereas anoximize did not occur until the obstruction became extreme

Even with extreme degrees of obstruction, the oxy

gen consumption was not decreased
Acidosis due to the accumulation of carbon dioxide

was a constant finding

The circulatory minute volume was very much increased although the pulse rate was practically unchanged

In one animal to which alkali was given intrave nously during the period of tracheal obstruction the hydrogen ion concentration and blood flow became normal, but the minute ventilation and oxygen con sumption were decreased below the normal value. The dyspinca appeared to be relieved.

From these observations the following conclusions

are drawn

I A healthy circulation may partially compensate for a failing respiratory mechanism

2 When the lungs are normal and tracheal ob struction is produced the carbon dioxide content of the blood is elevated quite markedly before anox amia occurs

3 Alkalme therapy may be of value in cases of tracheal obstruction due to inoperable causes and in laryngeal cedema following instrumentation Whenever alkali is administered, oxygen also should be given Morkis H Kahin MD Fritz, R The Liberation of Pleural Bands Under Pleuroscopic Control During the Treatment of Tuberculosis by Artificial Pneumothorax (La libération des brides pleurales sous contrôls pleuroscopique au cours du trattement de la tuber culose par le pneumothorax artificiel) Presse méd Par 1926 vxxv 8

The value of pulmonary collapse in the treatment of predominantly unlateral ulcerative caseous tuber culosis is no longer questioned. The indications for artificial pneumothorax have been extended and its technique made exact. Most surgeons agree that as complete a collapse as possible should be established progressively and maintained over a long period

Various statistics show the frequency and thera peutic insufficiency of incomplete compression. For cases in which complete compression is prevented by intrapleural adhesions. Jacobaeus of Sweden and Herve of France have proposed the division of the adhesions. This requires clear vision of the adhesions which the fluoroscope and roentgenogram show only imperfectly.

Fritz describes the use of the pleuroscope with its trocar and of the galvanocautery or the diathermic sound with the conductors. The operative indications are greatly reduced by the endoscopic examination. The optimum indication is offered by fill form bands or membrane like fibrous bands which are non vascular do not penetrate the lung tissue, and are located at the level of the third or fourth interspaces. Apical and diaphragmatic bands are relative indications. Short, broad thick adhesions are contra indications.

The operative and postoperative complications are pleural reactions and harmorrhage. The pleural reactions vary greatly in their gravity, but the harmorrhage is rarely dangerous.

WALTER C BURKET M D

Northwest Med 19 6 xxv, 297

Holman E The Postoperative Pulmonary Ab scess Vorthwest Med 19 6 xxv 290 Castlen C R Pulmonary Abscess Vorthwest Med 19 6 xxv 294 Buschmann T W The Surgical Treatment of

Lung Abscess

HOLMAN Of the two generally accepted theories as to the cause of postoperative pulmonary suppuration the embolic theory is the only one which is supported by experimental evidence. Attempts to produce a lung abscess by the introduction of in fected material into the bronchial tree have been repeatedly unsuccessful. Holman and Chandler were able to produce a pulmonary abscess in ten of twelve attempts by introducing an infected embolis into the jugular vein. In experimental studies the first evidence of pulmonary suppuration occurs six days after the injection of the infected substance. This agrees with the clinical findings, as Moore found the

average time of onset of the symptoms in 187 cases to be the sixth day

Expectant treatment is indicated in cases with an associated pneumonia, in the incipient stage of the abscess and when progressive improvement is noted If the abscess communicates with a bronchus it should be treated by postural drainage for from six to eight weeks before operative interference

If there is no communication of the abscess with a bronchus or if the patient's condition becomes progressively worse operation should not be de layed If the abscess is located centrally artificial pneumothorax may be attempted. This may be un successful however as pleural adhesions are present in from 40 to 50 per cent of the cases It should never be used when the abscess is located peripher ally because under uch circumstances the abscess might rupture into the pleural cavity and produce a The treatment of peripheral ab fatal empyema scesses is direct drainage. After resection of the ribs overlying the abscess cavity the cavity should be opened only when pleural adhesions are present and then with a cautery. If no adhesions are found the wound should be packed with gauze From five to eight days later firm enough adhesions will have formed to permit drainage of the abscess with safety The abscess should be drained at the point where the pleural adhesions are found. Abscesses in the upper lobe are best drained anteriorly. Those located in the lower lobes can be drained laterally or poste riorly

In cases with multiple abscess formation the cautery pneumectoms of Graham is indicated

Proph laxs, is especially important. Patients who have had a recent acute tonsillar or respiratory in fection should not be operated upon for at least a week after the subsidence of the acute symptomy all operative procedures should be carried out as genth, as possible as trauma increases the danger of the formation of emboli.

CASTIEN Pulmonary suppuration may follow in flammation of the lung or may be caused by direct extension from a neighboring organ the aspiration of infected material in operations about the upper respiratory trict or by septic embodi

In the case of any patient developing postopera tive respiratory symptoms or in whom there is an exaggeration of thready existing pulmonary symptoms the possibility of a lung abscess must be borne in mind

Tangential V rav pictures are often more valuable than the ordinary anteroposterior items. The sputum is quite characteristic. Large amounts of fortid sputum are expectorated. The sputum is negative for tubercle bacilli but may contain elastic tissue. Cavits signs are present in about 25 per cent of cases.

A pulmonary abscess is usually of short duration as contrasted with bronchiectasis and pulmonary tuberculosis

Multiple ab cesses usually follow acute suppurative processes elsewhere in the body and offer some difficulty in diagnosis

If no improvement is obtained after three or four weeks under medical treatment a surgical procedure is indicated Twenty five cases of pulmonary abscess are reported in seven of which the lesson followed tonsil lectomy. In three cases a general anesthetic had been used. In twelve cases the abscess followed pneumona. In five cases four of which were fatal the cause was not determined.

Ten cases were operated upon In eight a thora cotom, with open draininge and in two an extra pleural pneumolysis was performed In two cases treated expectantly spontaneous healing occurred Eleven cases were treated first by artificial pneumo thorax. The pneumothorax aided in the localization of adhesions operation was performed later

As conservative methods of treatment postural drainage and artificial pneumothorax are recommended. Of the operative procedures drainage of the abscess in two stages is the method of choice

BUSCHMANN Bronchoscopy should be used only in cases of pulmonary abscess located at the root of the lung and due to the appration of a foreign body Artificial oneumothoray is applicable to early

cases before a dense inflammatory reaction has oc curred around the abscess. It is most useful in cases in which the abscess is located centrally External drainage is indicated in the treatment of

External drainage is indicated in the treatment of peripherally located abscesses. A two stage operation should be done

In cases of deep abscess thoracoplasty is prefer able to external drainage In cases with multiple suppurative processes the

cautery pneumectomy of Graham may be used Buschmann has employ ed chiefly the technique of extrapleural pneumolysis. This consists in the pro duction of an extrapleural pneumothorax by separating ing the parietal pleura is certail pleura and involved lung from the thoracic cage. The collapse of the bacess cavity is maintained by tamponade with gauze. Buschmann reports in detail five cases of oulmonary abscesses in flour of which extrapleural

pneumolysis was performed with good results
ALTON OCHANGE M D

Smirnov S Experiments with Simple and Combined Ligation of the Pulmonary Vessels (Experiments mit einfachen und kombinerten Unterbindungen der Lungengefass e) Lerhandt d 16 rats Chir Aong Moscow 19 5 p 382

To determine the effect of simple and combined ligation of the pulmonary sessels the author carried to a simple and to the pulmonary tessels the author carried to a simple and the pulmonary arteries the pulmonary tissue showed a fibrous arrophy and the circulation was re established through the bronchial sessels. After twenty months there developed in such a lung hipertrophic changes of the bronchial mucosa with papillary excrescences of the epithelium which here and there bridged the bronchial lumen and sometimes led to yst formation. In the author opinion these changes contra indicate ligation of opinion these changes contra indicate ligation of of bronchectisss, which has been recommended by Sauerbruch.

The ligation of the pulmonary vens caused ordema in the pulmonary parenchy ma Simultaneous ligation of arteries and vens (branches of the pulmonary vessels) was followed by atrophy of the parenchy ma, including the bronchial epithelium Ligation of the bronchial vessels was soon compensated by anisto moses of the pulmonary vessels and therefore had little effect.

Alexander E G and Sherk R L Empyema in Children Itlantic W J 1926 xxix 60

This article reports a study of 291 cases of emprema in children which were treated in the past eleven verts in four institutions. The mortality is much greater in the first three years of life (22 per cent) than it is in later childhood (11 per cent) because in emprema in infancy the resistance is low toxemia is severe, septicemia is more prone to develop and complications are more common

In nearly all of the cases reviewed the condition was preceded by pneumonia, but in some of them it followed other respiratory disturbances and in one it developed after an injury to the chest wall Early pleurisy in pneumonia is an important causative factor

In the typical case of acute empyema the fever recurs after the pneumona crisis with dyspinea acceleration of the pulse, evanosis, and displace ment of the heart. Empyema is to be suspected when the temperature falls but does not quite reach normal and oscillates at that level, the per cussion note becomes more dull, and the dullness extends anterioriv. In subacute cases there may be instead of these signs, a loss of weight and appetite or a hacking cough or diarrhora. The authors have never hanny of delay der resolution in the pneumona of childhood in cases in which this is suggested empyema is present

The roenigen ray aids in locating the emprema and revealing the condition of the lungs. The absolute diagnosis rests upon the aspiration of pus varily all of the cases reviewed were of the massive type of emprema localized toward the base of the thorax posterioris.

The sex and ages of the patients the incidence and location of the empyema, and the mortality are given in tables. Thirty one per cent of the children were under 12 cents of age. The condition was most common in the second vear of life and occurred more frequently in boys than in girls and occurred more frequently in boys than in girls and on the right side than on the left side. Of the communicable diseases scarlet fever is most frequently complicated by empyema but in this group of conditions empyema is rare.

When the emplems was discovered early in the cases reviewed it was treated by repeated aspirations or intercostal drainage through a catheter while the surgeon awaited resolution of the pneumonic processes, the thickening of thin pus, the localization of a massive emplems or improvement in the patient's general condition. The subsequent operative procedure, which was performed under

local anæsthesia when possible and with the patient lying on his abdomen, consisted in the resection and the insertion at the lowest point of two fenestrated tubes for drainage. The sudden withdrawal of large amounts of fluid was avoided. Irrigation was found to be of little value in hastening convalescence. Dakin s and other solutions were disrippointing. The tubes were shortened a few centimeters from time to time and removed as soon as feasible, the wound then being allowed to heal if there was no fever.

In no case was there any acute osteomyelits or necrosis of the ribs At the Philadelphia Hospital for Contagious Diseases cases in which the resection was done were fatal, whereas those treated by aspiration or intercostal drainage terminated in recovery

In the postoperative care the most important factors are sufficient drainage, food nich in calories to prevent mitrogen loss, blowing evercises to promote lung expansion and the prevention of spinal deform its due to no resection.

Recovery from empyema is slow. The disease cannot be considered cured until the sinus is healed and there are no signs of trouble attributable to the empyema.

MAURICE MEYERS M D

Kruzkov W The Results of the Operative Treatment of Acute Empyema at the Wladmir Children s Hospital (Resultate der operative Behand lung akuter Empyeme nach dem Matenal des Wladmir Kinderhospitals) | tehandl d 16 russ Chir Kong Moscow 1925 p 354.

The author reviews 145 cases of empyema in children Fifty seven and two tenths per cent of the patients were under 6 years of age. In 64 per cent of the cases the empyema was of metapneu monic origin in 23 per cent it was apparently primary and in the others it was due to various causes

Of the ninety five cases in wich a acteriologilbach study was made diplococci were found in 614 per cent streptococci in 125 per cent staphylococci in 72 per cent and mixed organisms in 187 per cent

All of the 1.5 petients were operated upon, eleven in the first week seventeen in the second, and 117 at later periods. The time at which the operation was performed seems to have had an influence upon the results as the highest mortality occurred following operations performed in the second week. The age of the patient had a decided influence upon the results the mortality being 50 per cent among those butween 1 and 4 years 7 2 per cent among those between 1 and 9 years and 5 8 per cent among those between 4 and 9 years and 5 8 per cent among those between 0 and 12 years.

When the cases were grouped according to the bacteriological findings the mortality was found to be 417 per cent in those with streptococci 25 per cent in those with staph lococci 23 7 per cent in those with diplococci, and 15 8 per cent in those with a mired infection

In the majority of the cases (113) a thoracotomy with rib resection was done. In only twenty eight was rib resection omitted. The mortality in the

former group was 24.7 per cent while that in the latter group was 14.2 per cent. The author believes that as factors in the mortality the differences in the bacteriological findings and the technique were of secondary importance to the ages of the patients.

During the last year a new method consisting in opening of the pleura without postoperative drain age has been used. Of the sixteen patients so treated thirteen had an uneventful convalescence and only three died. In the cases without drainage the average duration of theillness was twenty three and four tenths days whereas in the cases with drainage it was fifty nine and seven tenths days. Prawo (2)

Krasnobajev T and Freidin I The Results of the Treatment of Acute Empyema in the Moro sov Children's Hospital (Resultate der Behand lung akuter Empyeme nach dem Material des Morosov schen Kinderkrankenhauses) ierhandl d 16 russ Chir kong Moscow 1925 p 358

The authors review the results obtained in 353 cases of emptema which were treated in the period from 1004 to 1924. Of the 193 cases in which a bacteriological examination was made diplococci were found in 105 streptococci in thirty four staphylococci in twenty one and mixed organisms in thirty three. In 250 cases a thoracotomy without in resection was done. Local anaesthesia was employed. Thirty eight of the children were 1 year of age or under severnly six between 1 and 4) ears old, 132 between a and 9 years and thirty four between 0 and 12 years. The mortisality in these age groups 0 and 12 years. The mortisality in these age groups 2 23 per cent in Group 3 and 14 y per cent in Group 5 crows.

Resection of one rib was done in twenty-one cases
In this group there were three deaths The number
of cases is too small to warrant conclusions with

regard to the operation

In the last three years the author has obtained good results from repeated punctures and aspirations. In half of the fifty two cases in which this treatment was used complete healing resulted. In the others a secondary thoracotomy was necessary. Eleven of the patients were 1 year of age or under twenty one between 1 and 4 years old fourteen between 4 and 9 years and iss. between 9 and 12 years. The mortality was 0 per cent in Group 1 19 0 per cent in Group 2 and 0 in Groups 3 and 4.

The authors recommend multiple aspirations as the best method for the treatment of empyema in children Perrov (Z)

HEART AND PERICARDIUM

Leriche R The Treatment of Obliterative Peri carditis and Precordial Thoracectomy (A propos du traitement de la symphyse du pericarde et de la thoracectomie precardiaque) Bull et mên Soc nat de chir 1926 in 118

Since his first comprehensive study published in 1909 Leriche has performed six precordial thora cectomies three for obliterative pericarditis and three for other cardiopathies. He now believes that it should be performed only in cases of pericarditis and sclerosing mediastinitis. In the other classes of cases its results are too transitor.

Only local anæsthesia should be used Two of the deaths in the author's cases were attributable to the addition of general anæ thesia. The resection should be quite extensive. There is no advantage in removing the posterior perichondrium a diffuse bone placque is as a git to form in absence of the per

chondrium as in its presence

In only one of the author's cases was the late result good. A patient in poor condition with albuminum enlargement of the liver and ascites was so benefited by the operation that when he was able to work on scaffolds and in cassons under pressure One patient with an excellent immediate result died suddenly at a dinner given to celebrate his recovery. In the others the improvement was only transitory.

As a whole the results are mediocre and in any given case cannot be forefold. However the opera tion should not be abandoned as there is everything to gain in these cases and very little to lose

ALBERT I DE GROAT M D

ESOPHAGUS AND MEDIASTINUM

Morley J Diverticula of the Esophagus Brit M J 1926 1 981

Diverticula of the esophagus are a somewhat un common cause of dysphaga but are not as rare as was formerls supposed. They occur usually in elder ly men. The diverticulum is in reality a pharyngeal diverticulum as it arises at a relatively weak spot between the transverse and oblique fibers of the encopharyngeaus muscle. The cause of the mucosal hermation is not known but obstruction below the pharynx due to spasm of the upper casophageal sphincter retrosternal gotter or organic stricture may be a factor.

In the diagnosis carcinoma must be excluded

This requires an X ray examination The œsophageal pouch offers a grave mechanical obstruction to deglutation and can be successfully treated only by surgery In most cases the operation of choice is primary excision and suture but to avoid grave complications the sac must be rendered as sterile as possible by frequently washing it out with a mild antiseptic Anæsthesia should be induced with intratracheal ether or by local infil tration with procaine The operation should be attempted only by surgeons who are familiar with the technique of gastro intestinal surgery. The sac must be closed with the greatest care and accuracy The wound should be always drained for the first few days In the cases of emacated patients a gastrostomy should be performed at the same time to insure a sufficient liquid intake After the operation deglutition must be avoided for several days CYRIL J GLASPEL M D

Pokoulo W A Case of Complete Reconstruction of the Esophagus by the Method of Roux (Ein Fall you collendeter Rekonstruktion der Speiserochte nach Roux) Verkanil d 16 russ Chir Kon₈ Vio com 1925, p 352

The author reports the case of a 26 year old woman with an impassable cicatricial stricture of the esophagus

At the first operation, the jeunum was sectioned and the distal end was implanted subcutaneously in the jugular fossa and sutured in this position. The distal end of the remaining jeunum was then unit ed to the proximal end.

Three weeks later, an anastomosis was made be tween the stomach and the loop of bowel passing near it and the peripheral end of the segment of bowel was constricted by reefing sutures After another four weeks the exophagus was severed in the neck, its aboral end closed, and its oral end implanted in the loop of bowel in the neck. At this point a fistula formed which was closed only after six interventions over a period of eight months. Feeding was then possible through the mouth. The subcutaneous bowel allowed the food to pass nor mully, and good peristaltic contractions were visible externally.

The author believes it would be better to make the anastomosis between the stomach and the loop of bowel which is to act as the œsophagus at the first operation and to draw the segment of bowel not only up to the jugular fossa but half way up the neck. This would simplify the most difficult step in the operation, namely the implantation of the severed œsophagus into the loop of bowel Perrov (Z)

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Nerescinsky A The Healing of Perstoneal Wounds
(Ucher die Helung von Lestonealsvunden) Ver
handl d 16 russ Chir Kong Moscow 1925 109
The healing of all wounds of the perstoneum even
the smallest occurs by primary or secondary inten

tion In either case the process is associated with an inflammation of the subserosa and a peritoneal exu date is formed the free cells of which play an important role in the formation of granulations. In primary healing adhesions occur easily and are pre vented only when the peritoneal endothelium and the subserosa are entirely normal. This normal condition is very difficult to determine and is de pendent upon the colloidal state. The greater the acid reaction of the tissues such as occurs in inflam mations in general and has been demonstrated ex perimentally in the primary healing of wounds by Girgolaff the more the cells swell the greater the amount of water they take up and the more adhe sive they become Such increased adhesiveness may explain the easy occurrence of adhesions in Dri mary healing in the presence of a quasi normal peri toneal endothelium

The vascularization of the granulation tissue of the peritoneal wound begins at the end of the first day and takes its origin from the endothelial processes of the nearest capillaries B; the beginning of the third driv the granulation tissue is distinctly vascularized and on the tenth day arterial and venous capillaries are to be seen. On the twenty seventh day well formed arteries and veins can be made out.

In conclusion the author states that in experimental and pathologico anatomical specimens of peritoneal adhesions he was often able by the Golgi method to demonstrate nerve fibers

LORVMANN (Z)

Wilensky A O and Hahn L J Mesenteric Lymphadenitis Inn Surg 1926 lyxxii 812

Mesentenc lymphademits is often mistaken for acute appendictis but is an entity more or less distinct from appendictis pathologically anatomically and to some extent clinically

Some cases may not be differentiated pre-opera tivel; but at operation the appendix is found normal and the mesenteric lymph glands enlarged There seems to be no clinical relationship between the two conditions. The involvement of the mesenteric lymph nodes is associated with pathological changes in Pever's patches rather than in the appendix.

Mesenteric lymphadentis may be either pyogenic or tuberculous. Three types of the former are recognized namely simple suppurative and calcified The authors discuss the characteristics of each Conservative treatment is indicated in all except the suppurative type.

ENG G GARSIDE M D

GASTRO INTESTINAL TRACT

Jordan S M and Lohey F H Diverticula of the Alimentary Tract Surg Clin N Am 1926 vi 747

Directicula of the essophagus may be of either the pulsion or the traction type. Those of the traction type soldom cause symptoms as their apices are usually directed outward and upward and rarely har bor accumulations. The diverticula of the pulsion type usually occur at the phary ngeal dimple on the posterior wall of the essophagus and are due to a congenital defect plus the action of increased intra pharyngeal pressure. The chief symptom of essophageal diverticula is dysphagia. Ultimately even liquids are swallowed with difficulty. Regurgitation of undigested food without hydrochloric acid may occur. Dyspinoa cyanosis and hoarseness may result from pressure

The treatment consists in either dilatation with esophageal bouges or the surgical removal of the sac. The two stage removal of the sac should be done under local amesthesa. The first stage should consist in liberation of the sac and its implantation upon the skin of the neck and the second stage performed after the wound have lead in the removal of the sac. Leakage from the sac stump recurrence dilatation should be routinely employed for some time after the operation.

Discricula of the stomach are not common Those of the traction type are probably simple penetrating ulcers with perigastritis in the inflam matory or cicatricial stage

Diverticula of the duodenum are second in fre quency to those of the stomach They may be single or multiple and of either the traction or the pulsion type. Then are found most commonly in the second portion of the duodenum. A clinical diagnosis of duodenal diverticula is impossible because the symptoms arising from pressure or inflammition in the diverticula simulate those arising from similar processes in the duodenum, pancreas, and bile ducts An \(^1\) ray diagnosis of duodenal diverticula is possible, but the shadows must be differentiated from those of ulcer, duodenal stricture due to spasm, and dilatation of the ampulla of Vater. Repertied fluoro scopic examinations with the use of atropine to over come the spasm may be necessary.

The treatment is distinctly surgical, but dissection may be very difficult if the sac is involved in a mass of pancreatic tissue including the pancreatic and biliary ducts. After its liberation, the sac should be resected. Gastro enterostomy is desirable to give the duodenum temporary rest. If exploration shows surgery to be impossible, medical treatment in the form of a non-irritating diet and measures to main

tain normal bowel function is necessary

In the colon, diverticula may occur at any point Colonic diverticula are more prone than others to become inflamed and to rupture. When this occurs, a localized abscess rather than general peritorities develops. The symptoms are pain tenderness and constipation. In many cases there is a palpable mass. The A ray diagnosis is difficult as the serm solid faces may so fill the pockets that no barum can enter them. When a palpable mass is present, exploration is usually advisable. Resection has a high mortality unless it is preceded by colostomy and is done in several stages. The medical treatment consists in maintaining the normal function of the colon to keep the pockets embty.

CYRIL J GLASPEL M D

Peck C H Cardiospasm Digital Divulsion in

Two Cases Ann Surg 1926 IXXXII 1 6

The first case of cardiospasm reported by the author was that of a man 42 years old who had had difficulty in swallowing for eight years. The condition had not been painful, but the retention of food in the dilated csophagus caused discomfort he use of antispasmodics and bouges had been of no benefit. The \times 1 as showed an enormous dilatation of the csophagus with obstruction at the cardia.

In November, 1925, a gastrotomy was performed The dilated cesophagus projected 2 in below the diaphragm No fibrosis or thickening was found The stomach was opened 2½ in below the cardia and retrograde dilatation with bouges and digital stretching was done until the cardia readily ad mitted two fingers

Recovery was uneventful Solid food was given within a week after the operation Improvement in the ability to swallow continues up to the present time Yray examination March 6 1926 showed a marked decrease in the dilatation of the œsophagus

The second case reported was that of a woman 26 Jears old with a history of difficulty in swallowing for four years, vomiting which occurred four or five hours after eating, and pain in the epigastrium and back. Induced vomiting gave no relief. The symptoms had become more severe during the past year X rav examination showed marked dilatation of the esosphagus and delay in the progress of the barium.

At operation, performed in April, 1925, the cardia was found 3 in below the diaphragm and greatly dilated There was no thickening Through a gas trotomy, the cardia was dilated with the fingers to a diameter slightly larger than that of two fingers

Recovery was uneventful Six months later the patient was free from symptoms and had gained 25 lbs. In April, 19 6, the esophagus was still greatly dilated

In the discussion of this report Morris called attention to the fact that peripheral nerve irritation produced by an impacted molar of eye imbalance might be a factor in the causation of cardiospasm Heym stated that he believed Peck's patients

might experience a recurrence of their symptoms

Peck replied that he did not consider his cases

cured permanently, but as there was no patho logical lesion present except cardiospasm it is probable that they could be relieved again in the future, if necessary by mere dilatation

DON K HUTCHEAS M D

Delore A, Comte II and Labry R Gastric Hæmorrhages of Obscure Origin (Contribution a l etude des gastrorrhages de causes mal connues) Presse méd l'ar 1926 xxii 83

The authors discuss briefly the etiology of the rare hæmorrhages of gastric origin in which no lesion of the mucosa and no constitutional disease which might be held responsible for such bleeding can be demonstrated Some surgeons have called attention to local vascular changes as a possible cause of the bleeding In this article two cases with alterations in the gastric vessels are reported. The first case was that of a man of 36 years who for two years, had had melæna and repeated gastric hæmorrhages which finally resulted in severe anæmia. The patient complained also of vague dyspeptic symptoms and atypical epigastric pain Examination of the ab domen was essentially negative. At operation the stomach was found dilated, but showed no evidences of ulceration or neoplasm. The arteries however, were enormous tortuous and dilated, and pulsated The duodenum, liver and gall bladder violently appeared normal Because of the dilation of the stomach a posterior gastro enterostomy was done In addition, the gastric (coronary) artery and the gastro epiploic arcade were each lighted at two

The gastric hæmorrhages ceased entirely after the operation Five years later they had not recurred and the patient's general condition was greatly improved

The second case was that of a man of 35 years who had had digestive disturbances for ten years I wo years after their onset, a gastro enterostomy

was performed and resulted in some improvement Eight years later there suddenly occurred a severe melena which persisted Physical examination of the abdomen and \ ray examination of the stomach were essentially negative. The stomach was small and the gastro enterestomy opening was function ing normally

At operation the stomach was opened and the mucosa thoroughly explored but no trace of ulcera tion was found Blood fairly gushed from the gastric incision. In this as in the first case, the gastric ves sels were enormously dilated. The right gastro epiploic artery was fortuous and its violent pulsa tions were transmitted to the gastric wall. On the assumption that this vessel had been responsible for the bleeding it was ligated at four points and divided between ligatures close to the pylorus

The patient made an uneventful recovery When he was seen again five months later he had had no further hymorrhage LAWRENCE JACQUES M D

Sturtevant M and Shapiro L L Gastric and Duodenal Ulcer Frequency Number Size Shape Location Color Sex and Age in 7 700 Necropsy Records at Bellevue Hospital New York 4r h Int Med 1926 YTTYIN 41

Autopsy statistics probably afford the best means of determining the frequency of gastric and duodenal ulcer While they are open to certain objections they are undoubtedly more reliable than medical diagnosis or surgical observation

In 7,00 autopsy records made at Bellevue Hos pital New York in the period from 1904 to 1922 it was found that gastric and duodenal ulcers con sidered together were less frequent than is indicated by most statistics This finding was due to the low incidence of gastric ulcer The incidence of duodenal ulcer was about the same or a little higher than that indicated by other statistics

A gastric or duodenal ulcer or the evidence of healed lesions was found in 2 per cent of the autop sies One and a half per cent of the ulcers were gastric and o s per cent were duodenal. According to nearly all statistics ulcer is much less common in America than in Europe

About o per cent of the gastric ulcers were mul tiple This compares closely with other statistics About half of the duodenal ulcers were multiple a higher percentage than is given by other statistics

The average linear measurement for single eastric ulcers was 2 35 cm. With one exception, the size of the ulcers decreased as the number of the lesions in creased The duodenal ulcers ranged from less than o 5 to 2 cm in diameter No noteworthy change in the size of the duodenal ulcers was noted when they were grouped according to number

Most of the gastric ulcers were round but about 5 per cent were oval Almost all of the duodenal

ulcers were oval or round

Seventy six per cent of the gastric ulcers were found near the pylorus 12 per cent near the cardia and r per cent in the midgastric zone. Of nine on

the anterior surface three were near the pylorus The duodenal ulcers were nearly all in the first por tion of the duodenum but in seven cases of multiple duodenal ulcers the second portion of the duodenum was involved. Also in two cases of encircling ulcer the lesion extended to the second portion

Two gastric but no duodenal ulcers were found in colored persons. The incidence of gastric ulcer was about three times as high in males as in females while that of duodenal ulcer was slightly higher in males than in females CYRIL J GLASPEL M D

Lahes F H The Scheme of Management of Gastric and Duodenal Ulcer in This Clinic Surg Clin \ 1m 1926 \1 695

The author tates that the lack of agreement between the internit and surgeon as to whether pep tic ulcer should be treated by medical or surgical measures is due to a lack of familiarity of each with the successes and failures of the other

Conservative surgical measures represented by gistro enterostomy have a mortality of about 1 or 2 per cent fail to cure in at least to per cent of the cases and are followed by jejunal ulcer in at least s per cent Radical procedures such as pylorectomy and partial gastrectomy have a mortality ranging from 10 per cent upward but in practically all cases in which the patient survives they give a lasting cure

The results of medical treatment cannot be stated so definitely since as yet there are no available fig. ures with regard to persisting cures and recurrences

At the Lahey Clinic all patients with peptic ulcer except those showing definite indications for surgery are put to bed for three or four weeks under the neutralization regime devised by Sippy In a large percentage of cases this treatment brings about a persisting amelioration of the symptoms with the disappearance of blood from the stools and improve ment in the \ ray defect

Cases regarded as unfit for non surgical treatment are those in which malignancy is suspected those with perforation those in which the symptoms can not be relieved in seven days those in which occult blood cannot be made to disappear from the stools in fourteen days and those with pyloric stenosis

In doubtful case of carcinoma much helpful in formation can be obtained by noting the effect of medical treatment. If the symptoms are not re heved the \ ray defect persists and occult blood is still present in the stools after a week or two, radical operation is justifiable

Without such evidence from medical manage ment explorators operation is of little value as it often reveals a small deep ulcer which cannot be diagnosed as mulignant or benign from inspection alone The surgeon must then either close the ab domen and watch the progress of the condition perhaps leaving a carcinoma behind or subject the patient to the danger of partial gastrectomy when the lesion is an ulcer that might be cured medically

In operable cases of frank gastric carcinoma partial gastrectomy must be undertaken. Whether this operation should be performed for a benigh lesion depends considerably upon the skill of the surgeon. When there is considerable doubt, it is perhaps better to do a conservative gastro enter fostomy even with the risk of gastrojejunal ulcer. If necessary, this may be followed by a radical oper ation later when conditions for it will be more flavorable.

Cyril J Glaspie M D

Grégoire, R The Contra Indications to Surgery in Gastric Ulcer (Les contre indications chirurgi cales dans l'ulcère de l'estomac) Bull et mem Soc nat de chir, 1926, lu 184

There are periods in the course of a gastric ulcer during which there is a distinct exacerbation of the infective process. These are characterized by an elevation of temperature, which may reach 30 degrees C or more, a corresponding elevation in the pulse rate, an increase in the intensity and duration of the pain, and the occurrence of gastric hæmor rhages Operative interference during such periods is attended by the gravest danger because of the tendency of the manipulations to disseminate the infection Surgical measures should therefore be delayed until the crisis has entirely subsided Two cases are cited to illustrate respectively the danger of operating at such times and the safety with which surgery may be resorted to when adequate time has been allowed for subsidence of the exacerbation

In the discussion of this report, DUVAL cited a case in which encapsulated diplococci were found on microscopic examination of an excised pyloric ulcer. The patient died soon after the operation from pneumococcus pneumonia, attributed to the dissemination of the infection from the ulcer.

DUMARIER suggested that the reason why gastro enterostomy alone proved to be safer than gastro enterostomy with excision in Gregoire's cases was that the former required less handling of the tissues

CUNEO stated that he also advocates gastro enterostom; alone in cases with acute inflammation He has been able to demonstrate streptococci in all of the inflamed ulcers which he has subjected to microscopic examination. An acute princreatitis may follow gastine operations, particularly resections.

LEGENE performs gastro enterostomy alone for the small mobile, slightly inflamed ulcers. Exten sive, indurated ulcers he treats by resection made as wide as possible to avoid the danger of passing too close to an infected lesion

LAWRENCE JACQUES M D

Bohmansson, G The Surgical Treatment of Gas troduodenal Ulcers with Particular Regard to the Operative Anatomy and the Postoperative Digestion Physiology with a Contribution to the Question of the Surgical Treatment of Acute Ulcer Hæmorrhage Acta chirurg Scand 1926 by Supp vii

Studies of the anatomy of the stomach during recent years by Forssell, Perman, Djorup, and

Usadel have shown that the circular muscle fibers the branches of the vagus, and the main vessels of the submucosa take a parallel course in the ventric ular wall. For the maintenance of a surgical anasto mosis and the postoperative mothly of the stomach it is important to prevent injury of these anatomical structures during operation. Even granting that the direct impulses to contraction of the muscular apparatus are elicited by the autonomous nervous system, the efficiency of this activity is regulated by the extriventricular nerves sympathetic and parasympathetic Experimental physiology seems to indicate also that these nerves are of importance for the qualitative regulation of the glandular secretion in the stomach.

In all cases of ulcer Konjetzny Orator, and Kalima have found a gastritis localized chiefly in the pyloric antrum. This observation has been confirmed by the author's findings in freshly resected specimens. In all cases of ulcer there is an indisput able gastritis which is independent of the location of the lesion In the more chronic cases, plasma cells and regressive changes are predominant, whereas in more recent cases and in acute evacerbations in chronic cases additional leucocytes in great numbers and not infrequently suppurative processes in the mucous membrane and miliary abscesses are found The constant presence of plasma cells even in acute ulceration of the mucous membrane with hæmor rhage indicates that the gastritis is older than the ulceration

In all probability the inflammation in the pylotic part of the stomach is primary and constitutes one, and perhaps the most important, factor in the so called gastric ulcer dathesis. In cases of chronic ulcer with anacidity there is generally a condition of atrophic gastritis with increased connective tissue formation and glandular atrophy. In cases of acute ulcer the inflammation is more intense. The varying degrees of acidity may possibly have something to do with the different stages of gastritis.

The treatment of ulceration should be directed primarily against the associated gastritis and should consist of medical treatment with careful regulation of the diet or of radical operation. Internal treat ment is best suited to early cases. In cases with advanced changes its effects are generally of short duration.

Surgical treatment is indicated in certain acute complications, organic obstruction, or suspected malignancy and in all chronic cases in which medical treatment has been tried but has given only unsatis factory or temporary results. If the history is a long one and the anatomical changes are of a serious nature, surgical interference may be advisable even without preyious medical treatment.

If the history is indicative of chronic ulcer, opera tion should be undertaken without delay when sud den hæmorrhage occurs. In acute ulceration of the nucous membrane with serious hæmorrhage, opera tion should be performed only when it is vitally necessary. When operation is undertaken for chronic ulcers its purpose should be not only to eliminate the risks of the ulcer itself but to relieve the gastriis the predisposing factor Palliature method mean prolonged after treatment with dieting and should be resorted to only on rare occasions when radical measures are impossible and medical treatment has been tried for a sufficiently long time without avail

The best clinical results with minimal disturbance of postoperative digestion will be obtained by a method which on the one hand eliminates the uleer and the pyloric antrum and on the other hand restores the phissological duodenip las sage and brings the rhy thmicral empty ing of the stomach under control. Such a method is Billiotth's primary resection

The primary mortality of this operation has been less than 2 per cent. In no case was there any recur rence during the time of observation. Of the patients followed up after operation op per cent had been considerably, benefited and 92 per cent had been completely restored to he tilt being able to take any kind of food. In most cases the gastric motility had been rectored and the emptying of the stomach had returned to normal. In only exceptional cases was the control of the findings of chemical analysis of the stomach contents was as a rule more normal than after other methods of treatment.

The postoperative digestion depends much more upon restoration of the physiological pa sage through the duodenum and a normal gastric motility than upon the postoperative gastric chemistry

Walton A J An Operation for Gastric Ulcers of the Lesser Curve Surg Gance & Obst 1926 alm 093

Whenever po sible the operation selected by the ruthor for gastice uleers of the lesser curve is wide excision followed by temporary occlusion of the py fours and posterior ga tro enterostomy. However if there is a narrowing at the site of the ulcer leading to marked our inction of the hourglass type or if the symptoms even slightly suggest the onset of accritionma the operation preferred is partial gas trectionly by the modified look antehod. In cases of very large uleres situated high up and firmly adherent to the panerses a simple gastro enteros the properties of the properties

Walton states that if modern methods including the test meal and \text{ \text{ \text{ \text{ red wallongton}}} are used there are few if any complications which will not be recognized before operation. Such complications are a second ulcer at the pilorus or in the duodenium gall stones and appendictus. The greatest difficulty at operation is caused by firm adhesions to the pain of the pilorus
ment of the ulcer is supplemented by posterior gas tro enterostomy

In the operative procedure described by the author the stomach is drawn out of the wound and the lesser curvature and its anterior surface are examined. An opening is then made through an avascular area of the gastrocolic omentum and the posterior surface is explored. When the ulcer is found an opening is made in the lesser omentum above it and the coronary artery is ligated both above and below it. One blade of a clamp is that above the opening in the gastrocolic omen passed through the opening in the gastrocolic omen function and clamped will above the ulcer. A second clamp is placed in a similar manner below the ulcer. A wedge excision of the ulcer is then done beginning on the anterior wall.

The posterior wall of the stomach is closed with a running suture of catigut which terminates and i tied at the lesser curvature. A second suture passed through all thicknesses of the posterior wall is also the dat the isser curvature. The opening in the anterior wall is switzed in a similar manner thrist row of sutures passing through all three layers of the tomach and the second through only the serous and muscular coats. The latter suture is made to pick up the divided edges of the gastro bepatic omentum and at the lesser curvature is tied to the first suture which passed through the sero muscular coat.

The pylorrus is embedded with a running mat tress suture of silk so as to bring about a temporary occlusion. I osterior no loop gastro enterostomy with the use of the jeunum is then performed begening in the stomach being made transversely as close a possible to the greater curvature. One half of the opening is provinari and the other half distal to the sutured line of excision. This assures neutral action of the acid contents high up in the stomach. If hourglass constitution follows both pouches the the stomach will be drained by the eastro enteros.

tomy Vomiting due to obstruction the so called vicious circle is today very rare. In most cases it is prob ably due to constriction of the opening in the meso colon and may therefore indicate an error in tech It is most apt to occur when posterior gastro enterostomy 1 performed on a patient with I fat or adherent mesocolon or the opening of the mesocolon is not sutured to the stomach sufficiently far from the anastomosis. When it is temporary it is probably due to cedema of the opening of the mesocolon rather than a mechanical obstruction Therefore if the frequent somiting of large quanti ties of vomitus persists after twenty four hours treatment should first be carried out on the assump tion that the condition is due to cedema

The op rative mortality of the method described is relatively low not exceeding 2 per cent \u03b1nity per cent of the patients are completely cured Of the remainder the majority may have infrequent attacks of comiting and discomfort. Such attacks

occur practically only in women who are suffering from visceroptosis in addition to the ulcer of the lesser curvature, a combination which is not un common. The type of lesion described is almost never followed by postoperative gastrojejunal ulcer and rarely by carcinoma. Jone J MILOVEN MD

Holmes G W, Dresser, R and Camp J D Lymphoblastoma Its Gastric Manifestations with Special Reference to the Roentgen Find ings Radiology 1926 vii 44

This study is based on eight cases of lympho blastoma of the stomach observed at the Massa chusetts General Hospital, Boston, and a review of the literature The cases observed are tabulated with regard to the gastro intestinal symptoms and the roentgen, surgical and pathological findings The histories of three of them are reported in detail

General consideration is given to the classifica tion pathology, symptoms, and clinical course. In the comparatively few records of cases with gastric involvement which have appeared in the literature, the roentgen findings are very meager. All of the cases observed by the authors were subjected to roentgen examination. In two the roentgen picture was negative, in five it showed filling defects and in one it revealed an irregular deformity of the an trum The roentgen appearance did not differ from that of carcinoma, except that in some of the cases the peristalsis was not interfered with to the extent generally seen in carcinoma. The diagnosis based on the roentgen findings was carcinoma in five cases and lymphoblastoma in one The possibility of the presence of lymphoblastoma in all atypical cases showing carcinomatous like deformities should be ADOLPH HARTUNG M D considered

kohler, H. An Approach to the Duodenum Through the Left Thoracic Cavity in Retro peritoneal Perforation of the Duodenum (Ein Weg zum Duodenum durch die linke Brusthochle bei retroperitonealer Duodenalperforation) Deutsche Zischr J Chir. 1926 exciv. 212

In the case of a young woman with a perforated duodenal uleer the author first assumed a conservative attitude but eight days after the perforation resection of the eighth in on the left side became necessary because of empyema Seven days later, after enlarging the rib resection wound and resecting a greater portion of rib Kohler split the diaphragm in the median depression of the dome under the guidance of his fingers. By this route he was then able to approach the head of the pancreas and the site of the perforation on the posterior wall of the duodenum and to drain the latter externally. Three days later he drained a perinephritic abscess on the left side through the diaphragmitic wound. The patient recovered

Kohler suggests this approach to the site of per foration in cases which reach the surgeon after the time for the usual operations has passed In such cases the abdominal findings often simulate those of

an abdominal perforation, the peritoneum being severely irritated. The differential diagnosis is facilitated by the early though slight participation of the left pleural cavity. Vo. Reportz (Z)

Hamilton, A. J. C. Intersigmoid Hernia Edin burgh M. J., 1926, n. 5, xxxiii, 448

The intersigmoid fossa is present in from 70 to 80 per cent of bodies. It is found most consistently during the fifth and sixth months of fetal life.

It lies in front of the left ureter and the left common iliac artery, near or at the bifurcation of the latter. Its usual depth is between 2 and 3 in. Its orifice which is oval or circular and measures about 1/2 in in its widest diameter, lies at the medial border of the left psoas muscle.

Intersigmoid herma is the rarest of all retroperitoneal herma. The total number of reported cases is fifteen. All but two of the fifteen subjects were males. In most of the cases there were signs and symptoms of acute intestinal obstruction. In all but two the content of the herma was small intestine.

The author reports a case which presented the signs of recurrent subacute strangulation which finally became acute [Acob S Grove M D

Kantor J L Colon Studies III The Clinical Significance of Ileal Stasis Its Association with Colitis Am J Roentgenol 1926 xvi 1

This study is based on 161 cases in which the emptying of the ileum was observed satisfactorily after the administration of a standard opaque meal. The following technique was adopted.

A standard meal consisting of barum sulphate in a pint of fermilac was administered in the morning Six hours later, an observation was made to determine whether the stomach was empty. All cases showing the slightest residue were excluded from the series. The patient was then instructed to take a mixed meal in order to stimulate the discharge of the ileopy loric reflex. Nine hours after the ingestion of the original barum meal another observation was made to determine whether or not the ileum was empty.

Retention of part of the opaque meal in the ileum at the time of the nine hour examination was regarded as stasis. Sex age, gastric acidits habitus, and ileocæcal insufficiency were not found to evert any definite influence on its occurrence, and ordinary constipation mechanical obstruction and so called chronic appendicitis were not of much importance Congenital anomalies of the colon played a marked role as did also excal stasis. The association of ileal stasis with colitis was one of the most striking find ings brought out by the study.

The author's summary of his findings and his conclusions is as follows

- r Ileal stasis occurs in over three fifths of all patients
- 2 It does not seem to be so directly associated with constipation in general as it is with caecal stasis in particular

3 It is not commonly associated with obstruction due to mechanical factors

4 It seems to vary inversely with the degree of descent of the execum (length of the execocolon)

5 It seems to be definitely associated with a state of lowered receptivity of the colon as indicated by increased irritability and expressed clinically by the presence of colitis

6 It is accordingly best explained as a functional defense reaction for the protection of an injured segment of the intestinal pathway It may therefore be transient or recurrent as well as continuous in its operation

7 This study seems to support the block system control theory of gastro intestinal motor function Apolph Hartung M D

Carman R D and Moore A B The Roentgeno logical Findings in Ulcerative Colitis Am J Roentgenol 1926 vvi 17

By chronic ulcerative colitis is meant that form of colonic ulceration which is not caused by para sites tuberculosis, disentery actinomycosis or spinilis Logan has collected the records of 600 cases seen at the Mano Clinic and has described two chinical types. In one type there is little systemic reaction. In the other the disease is accompanied by the control of the short of the protection. The short is a solid are profise and overly end protrained. The shorts are discovered in the control of the short of

Roentgenological examination is best made with the barium enima. In the early stages of the disease spasm is the chief roentgenological iniding that does not distinguish the condition from other forms of colitis. However the persistence of spasm after the administration of belladona in conjunction with the proctoscopic findings may assure the diagnosis in wich advanced cases the roentgenological signs in with advanced cases the roentgenological signs in with advanced cases the roentgenological signs to the process of the process of the process of the large box of marked account in paid filing of the large box of marked account in the process of the prolate of the process of the process of the prolate of the process of the process of the prolate of the process of the process of the protact of the process of the process of the protact of the process of the process of the protact of the process of the process of the protact of the process of the process of the protact of the process of the process of the protact of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the process of the process of the protact of the process of the protact of the process of the proces

Bargen J A The Etiology and Treatment of Chronic Ulcerative Colitis 1m J Rocnigenol 19 6 xv1 10

19 6 xvi 10

Chroric ulcerative cohits was first described by Wilks and Moxon in 18/5 and by White in 1888

Various bacteria have been considered of importance in the etiology of the condition but many workers have found some form of streptococcus in predominance, frequently in diplococcal arrange ment. The experimental evidence indicates that such a diplococcus is the causative organism. The symptoms, pathological changes complications and course of the disease strongly support the view that infection is the cau e and that the diplococcus is the original invader. A Gram positive lancet shaped diplococcus has been isolated in the vast majority of cases and it is the authors belief that if this were searched for at the proper time it would be found in all cases. Cultures of the organism in jected intravenously into rabbits and dogs have produced lessons essentially like those in patients with the disease. Distant foci of infection particularly in the tonsils and teeth, are of vast importance in the progress of the disease. The various stages of the condition have been observed on the eypo ed loops of intestine after the performance of ileostomy and colostomy to stop the advance of the infection.

In the past the treatment of the disease has varied from the use of a bland no residue diet local and topical applications and irrigations and non specific vaccine treatment to surgical treatment by excess tomy colostomy leosigmoidostomy and ileostomy

Chincal results establish the importance of (j) immuni ation against the described diplococcus (a) the removal of all distant foci of infection (3) a bland non irritating diet as a supporting agent (4) the empirical admini tration of various drugs as use in some cases and (5) as an extreme measure surgical inferference by ileostomy.

Truesdell E D The Surgical Treatment of Acute Appendicitis Ann Surg 1926 Ixxxv 104

True-dell reviews a series of 150 cases of acute appendictis operated upon in the past seven years with a mortality of 30 per cent. One hundred and thirty cases had intra abdomnial dirange, twenty-one were drained down to the peritonicum. Of the specimens arriving at the pathological laboratory, 36 showed gan, remous appendicuts to 3 acute or subacute tarbal appendicuts and 32 ordema of the appendix lymphod by perplasia mucocele or chronic appen dictits. Six appendices were reported normal

In the author's opinion the incision of choices is the McBurney incision. Special care should be taken to deliver the appendix with minimal trauma. Triesdell rarely employs abdominal pads. The stump of the appendix is most commonly freated by inversion but when drainage must be established and time conserved in the more serious cases simple ligation of the stump is regarded as adequate. In cases of odema or inflammatory, changes in the excall wall about the base of the appendix a suture involving the wall of the excum is undestrable.

Drains of folded dental rubber are used exclusively Occasionally a separate small incision for drainage is made in the flank or above the symphysis. Dur ing the first few days after the operation the drain is Joosened in the abdominal wall. It is then grad ually shortened until it is removed from seven to ten days later.

The postoperative treatment includes the Fowler position when necessary the administration of mor phine with restraint cenaria when indicated flax seed positices and the rectal tube for the reduction of distention fluids by mouth whenever possible, aage in selected cases, and the subcutaneous

administration of saline solution in cases with a

In the case, reviewed, the postoperative complications o importance were consequent upon the append.ceal inflammation and the operative wound Twelve patients with postoperative fever recove ed without surgical interference. Seven developed secondary abscesses which required drainage. In four caes the wound which was closed at operation re curred drainage because of infection. These wounds broke down so that a secondary suture was neces an There were two persistent sinules following primary drainage both patently tuberculous. Three patient, bled into the bowel to an alarming degree but recovered spontaneously Four developed a volent diarrigga. In one case a second operation was necessary for acute intestinal obstruction Broughtts developed in three cases pleuri v in one and pneumonia in one. In cases in which a McBur ner incl. on was used and deep drainage was es ab E.bed the incidence of herma was about 8 5 per cent

There was no case of definite fæcal fistula and leer-omy was not performed in any cale. Heo-tomy was no done because there was no indication for it and because the author is not convinced of its

The McBurner inch on was used in 138 of the goperations. This incline offers the most direct approach to the diseased appendix in the majority of case requires the least amount of breaking up or escential limiting adhes ons, allows the advantage one mitoduction of drains, and results postoperative hermation.

The lower right rectus inclion is best when exportion is necessary but must be made longe than the McBurner incision remains more breaking up of this one in the delivery of the appendix and is less about the form of the right rectus inclion is better for an operation performed by the sense of sight and the McBurner inclion for an operation performed largely by the sense of teeling. In acute ranged conditions of the lower abdomen of duction rature and especially those allocated with evidence of principles and the right rectus incision. Do K. Hermen's M.D.

Clute H.M Subphrenic Infection After Appendicitis Surg Cir V 4m 19-6 vi. 775

The author reports in detail a case of acute gargracous spendents with perforation which he operated upon forts-eight hours after the onset of the condition. The appendix was removed under duct vision and a large eigerette drain was in erted. After a fery dust all of the symptoms of Fen.on.is had disappeared and the patient sgen call condition was much improved but his tem prattice remained constantly elevated around roz degrees. F

Per sten fever following a laparotomy is almost always due to infection in the wound the pouch of Douglass or the subphrence space. Infection of the round usually causes pain and tenderness.

around the wound A collection of pus in the pouch of Douglas usually causes rectal pressure and tenes mus or deep pelvic pain. A subphremic infection usually produces no subjective symptoms except perhaps randly increasing weakness.

In the case reported the wound could be ruled out as the source of the fear and there was no evidence of infection in the pouch of Douglas. Vray examination of the chees showed fluid in the right pleural activity, and on aspiration of the cheest clear non infected fluid was obtained. A simple serious pleurists nearth always present in the chest when there is pus just beneath the disphragm. Several punctures were made into the subphrence space in the tenth interspace in the right individually line and even trulls a large quantity of foul smelling pus was obtained. This abscess was drained by a two-stage operation.

Under local anaesthesia, a 2 in portion of the tenth rib was removed at the site of the puncture which had returned pus, the pleural cavity was opened and the parietal pleura was sutured to the daphragim with a running stitch. The wound was then packed with gauze for forty-eight hours to allow hrm adhesions to form before the abscess was

Two days later the abscess was opened under nitrous oxide anisthesia by cutting through the daphragm 4 Lirge amount of pus was evacuated Following the drainage the temperature returned to normal and the patient made an uneventful recovery CYPEL GLASPER, M.D.

Heald C L A Simple Bloodless Operation for Anorectal Prolapse in Children Surg., Gyrec & O : 19 6 th: \$40

The operation described by the author is performed under general anæsthesia with the child in the dor al position its legs supported by an assistant After reduction of the prolapse a small bivalve rectal peculum is introduced the blades of the speculum are opened laterally and the lower rectal mucosa is swabbed with a 1 per cent aqueous solution of mercu rochrome The sacrococcygeal junction is then located by injerting the index finger and a 3 in . three-eighths-circle curved needle on one end of a coarse silkworm gut is in erted through the posterior rectal wall through the notch at the sacrococcy geal angle and brought out through the skin posteriorly A needle on the other end of the same suture is then named in the same manner on the opposite side of the coccyx A second similar suture is placed 1/2 in lower and brought out on each side of the coccvx

Both satures are tied rather tightly over a folded gauze compres. The gauze is kept dir by a cover of rubber dam sealed to the skin with narrow strips of adhesive which are in turn protected from moniture by rubber cerent

The child is kept in bed for three or four days During this time paregoric is given to prevent bowel movements. At the end of two weeks the sutures are removed The efficacy of this method depends upon the tendency of silk-worm gut under tension to cut its was through the tissues. As the suture slowly cuts through the rectal wall and the surrounding tissues fiealing by granulation occurs with the formation of firm connective tissue adhesions.

ANTHONY I SAVA M D

Jacobs A W Carcinoma of the Rectum and Sig moid Analysis of 121 Cases Results of Treat ment by Radintion Surg Gynec & Obst 1926 thi 50

From a review of ninety one cases of carcinoma of the rectum and thirty cases of carcinoma of the sigmoid Jacobs concludes that there are no subjective symptoms characteristic of these conditions

Blood in the stools is usually a late manifestation and constiption does not become very evident until the growth has reduced the caliber of the gut to such an extent as to produce a stricture. Rectal examina tion revealed a mass in over 70 per cent of the cases

Flatulence and indigestion associated with stool irregulanty and melena demand careful local examinations. In addition gastro intestinal \(\bar{\chi}\) ray proctoscopic sigmoidoscopic and biopsy examinations

should be made
Surgical statistics have shown that so far as

mortality and recurrence are concerned the most unfavorable period for operation is between the thirtitch and fortieth years of age. They show also that while the very old the more hable to the from the operation than the young their chance for permanent recovery is better.

In the more advanced case the proper combination of surgery and radiotherapy can accomplish something toward the alleviation of symptoms and the control of the growth of the neoplasm

Radium properly applied has a definite inhibitory and destructive effect on the majority of rectal neo

plasms

In addition deep rocatigen therapy should be given in the pelvis to inhibit metastasis by destroying or decreasing the amount of lymphatic tissue and to destroy or inhibit the growth of metastatic modules JACOS GROVE MD

Lockhart Mummery J P and Gordon Watson Sir C Discussion on the Complications of

Excision of the Rectum Proc Roy Sec Wed

The immediate complications of excision of the rectum are spices shock hemorrhage delay of heal ing orchitis epididi mits intestinal obstruction unitary complications sloughing of the gut bron chitis pneumonia pulmonary embolism and hemi plegar. The remote complications are narrowing of the colostomy opening ventral hermia sacra herma prolapse from the colostomy opening persistent pain in the penneal scar the accumulation of material in the blind end of the gut after perineal resection en largement of the prostate and persistent harrhora dispersion of the prostate and persistent harrhora of the prostate in the pros

LIVER GALL BLADDER PANCREAS

Copher G H Kodama S and Graham E A
The Filling and Emptying of the Gall Bladder
J Exper Med 1926 the 65

As a result of the control of the flow of ble into the duodenum largely by the tonus and movements of the duodenum lale intermittently enters the gall bladder where it is concentrated and undergoes other changes. The gall bladder is empitted through the cystic duct (i) by the washing out of its contents by bite from the later (2) by the elasticity or contractile mechanism of its walls (3) by anistions of intra abdominal pressure due to respiratory movements contiguous organs et and (4) by absorption of a portion of the contents of the gall bladder through its walls

The gall bladdet is never entirely empty but tends to come to a state of partial collapse when its contents are under minimal pressure. Rhy thinical contractions of the gall bladder due to its musculature have not been demonstrated. If they occur they may aid, but they are not essential to its emptying.

or filling

In experiments on dogs a rubber bag which was substituted for the gall bladder functioned in a manner very similar to that of the normal gall bladder as shown by cholecystographic studies. The concentrating function however was absent

Mentzer S. H. A Clinical and Pathological Study of Cholecystitis and Cholelithiasis Surg Gynec & Obst. 1926 vln. 182

Sitty six per cent ol 612 consecutive autopsies at the Mayo Chine showed grossly usible pathological changes in the gall blidder Sevent; five per cent of the gall bladders showed microscopic pathological changes. Seven and seven tenths per cent of the deaths were due to disease of the gall bladder per se Gall bladder disease is essentially a disease of adult life. The youngest patient in the series was a girl aged 13 years.

Eight per cent of the diseased gall bladders showed only minor inflammtory changes Cholesterosis of the gall bladder is essentially a non inflammatory disease. It was present in 38 per cent of the total series Eighty two per cent of the women who had been pregnant had some grossly visible gall bladder disease. Sixty four per cent of them showed cholesterosis only. In 70 per cent of the mshowed exholesterosis only. In 70 per cent of the mshowed was prossly, while in the gall bladder wall Gall stones were found in 22 per cent of the adults 17 per cent of the males and 28 per cent of the females. The youngest patient with gall stones was a woman 23 years of age.

Hydrops of the gall bladder was found in 7 per cent of the series Fhe inflammatory changes in the gall bladder wall and in neighboring organs were less myrked in cases of stones rich in cholesterin than in

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removal are that the blood runs down and obscures the ducts more drainage is required than in the other procedure and there is much more hemor

The removal of the gall bladder from below up ward requires first of all an adequate incision The cystic and common ducts are made prominent by traction upon them and the peritoneum over them is divided so that all structures (cystic duct and artery) are exposed The cystic artery is ligated separately and the stump of the cystic duct and artery is covered over by suturing the peritoneal flap The common duct may be recognized from the network of vessels on its wall. More than half of the common duct lies behind the duodenum For the exposure of the retroduodenal portion of the duct an incision must be made in the parietal peri toneum just external to the duodenum. In this area there are numerous small blood vessels that require CYRIL I GLASPEL M D ligation

Floercken H Recurrent Pain and Discomfort After Operations on the Bile Passages with Particular Regard to Anastomosis Between the Billiary Tract and the Duodenum (Ueber rueck faellige Schmerzen und Beschwerden nach Opera tionen an den Gallenwegen mit besonderer Berueck. sichtigung der Anastomose zwischen Gallengang und Zwoelstingerdarm) Deutsche Zischr f Chir 10 6

ctciv 181

In cases re examined because of recurrent dis comfort after operation upon the biliary tract the author found colic fever and icterus due to a per sisting cholangeitis with or without overlooked stones reflex spasms of the stomach and sphincter of Odds arising from the scar area or cystic stump or constant pain due to the formation of a hernia adhesions changes in acidity or chronic pancrea titis. In some cases, there were diseases of other organs such as renal lesions and duodenal ulcer

The results have been considerably improved since Floercken has performed his anastomosis be tween the choledochus and the duodenum in all cases in which the duct is dilated its contents are turbid and icterus is present. The method is contraindicated however when the wall of the bihary duct is friable, when there are anatomical difficulties, and when ascandes are present. Floercken has never observed ascending cholangeitis

In 320 cases in which a re-examination was made after the operation good results were found in about oo per cent According to statistics the best treat ment is early operation in the form of a simple resection without drainage of the hepatic duct. Chole dochoduodenostomy gave considerably better end results than were obtained in the cases with drainage

In the treatment of the postoperative disturb ances the Carlsbad cure is recommended. In suit able cases atropine and the instillation of magnisium sulphate into the duodenum with the duodenal sound may be considered. When there is no per sisting cholangeitis but Head's zones are found the

paravertebral injection of novocain tutocaine or dolantin in the tenth dorsal segment by Laewen's method is indicated. In cases of floating kidney with pyelographically demonstrable changes in the renal pelvis and the ureter nephropexy is beneficial In cases of recurrent febrile colic which do not respond to duodenal intubation another laparotomy should be performed for the removal of an overlooked stone or the treatment of stenosis of the biliary passages WASSERTRUEDINGER (Z)

Pancreatitis Associated with Rufanoff I G Cholecystitis Experimental Studies (Pankrea titis im Zusammenhang mit Cholecystitis experimentelle Untersuchungen) lerhandl d 16 russ Chir Kong Moscou 102, D 624

To determine the causes of acute hæmorrhagic suppurative and chronic pancreatitis and the part played by cholecystitis in the pathogenesis of pan creatitis the author carried out the following experi ments on sixty-one dogs

I The introduction into the pancreatic tissue of physiological sodium chloride solution alcohol bac teria or bile ten experiments

2 Ligation of the various ducts (cystic duct common bile duct and pancreatic duct) eight ex netiments

3 The introduction into the gall bladder of stones and sand with and without infection twenty experiments

4 Intraduodenal ligation of the papilla of Vater with and without ligation of the duct of Santorini and with and without the introduction of infection into the gall bladder twenty three experiments

From the findings of these studies it is evident that acute hæmorrhagic pancreatitis usually de velops after the entrance of infected bile into the pancreatic tissue when the escape of pancreatic juice is obstructed The suppurative inflammation is the result of the direct entrance of infection into the tissue of the gland

Without touching upon the internal secretion of the gland the author emphasizes the great resistance of the islands of Langerhans which always remain intact even when the tissue of the gland is destroyed This finding corresponds to the clinical picture of pancreatitis since in most cases the condition runs its course without the appearance of sugar in the urine

In Rufanoff's opinion the most correct theory regarding acute hæmorrhagic pancreatitis is the fermentation infection theory The cause of death is intoxication not hamorrhage

In conclusion the author states that pancreatitis is a serious complication of inflammatory processes in the biliary passages It is prevented by early sur orcal intervention in such cases. In acute pancrea titis the biliary passages should always be examined and drained and in chronic pancreatitis with com pression of the common bile duct an anastomosis to the gastro intestinal tract should be made

SCHAACK (Z)

Berssow, I The Relation of the Change in the Blood Forming Function of the Spleen (Die Verzenderung des Blutbildes nach Splenektome im Zusammenhang mit der blutbildenden Funktion der Mill) Chir Sammelh d propadent chir Klin u d Inst f Krebsforsch, I Woskauer Staatsum, 1929, p. 18

After splenectomy there is first a lymphocy tosis and later an eosinophilia. Many investigators reckon the percentage content and not the absolute num bers of the various cell forms and thereby obtain apparently contradictory results. The blood findings should be given in absolute figures and expressed graphically as the curves will reveal the mechanism of orient of the cells.

origin of the cells

The author is of the opinion that the lympho

cross following splenectomy is the result of the cressition of the action of hormones which restrict the formation of lymphocytes. The effect of these hormones is everted through the autonomous nervous system. After excluding the action of this system by means of atropine the author was able to decrease the lymphocy toosis from 10 to 70 per cent.

Beresow made determinations also in the cases of ten patients in the stationary period and studied the labile leucocytosis which occurs after the inges tion of food

The blood picture after splenectomy closely resembles that of Basedow's disease. The author was unable to confirm the finding of a very marked cosinophila. On the other hand, a moderate cosinophila occurs in all vaccionic conditions and is of the

same nature as the lymphocytosis

The red blood cells were studied in twelve sple nectomized dogs. The number rose about ro per cent. In cirrhosis of the liver in min it increases about -5 per cent, while in hæmoly tic icterus in man it increases about 30 per cent. The transitory polycythæmia which increases after the removal of the pathological spleen demonstrates the hæmoly tic function of the spleen The lymphocytosis, which constantly becomes more labile, proves that the spleen not only takes part in the lymphocytosis by means of its follicles but also with the aid of hor mones formed in the reticulo endothelial apparatus, has a part in the regulation of hæmatopoiesis.

REINBERG (Z)

GYNECOLOGY

UTERUS

Bland P B The Conservative Treatment of Un complicated Retrodisplacement of the Uterus 1m J Obst & Gynec 1926 xts 89

Probably no condition arising in the human body has been so often falsely accused of causing symptoms both systemic and local as uterine displace ment. For no other disturbance has such an array of therapeutic methods both medical and surgical been used with almost equally uniform failure to

give symptomatic relief

The teaching that the uterus is maintained in position by a combination of the pelvic ligaments is not correct. Usually, the round ligaments are observed as two cylindrical or ribbon like cords passively traversing the sides of the pelvis from the internal abdominal rings to the uterine corniua. Rarely are they seen in a state suggesting in any way that they

sustain the uterus

The round ligament operation is now performed relatively seldom. Indeed if the conservative plan gradually evolved and adopted during the past few years may be regarded as a criterion of the future it is obvious that uncomplicated cases will be treated if treated at all along ultraconservative lines. It is probable that simple malpositions will be regarded more from a physiologic of anatomical standpoint than a pathological standpoint.

The only types of displacement which may be legitumately placed in the category of surgical displacements are those of the large hyperplastic uterus in large chronically inflamed adherent uterus and the pathological prolapsed uterus. In such conditions considerably more surgers than simply short eming of the round ligaments or forward fixation of the uterus is necessary. E. L. Conx-LIL M.D.

Mikels F M Conservative Treatment of Cervical Erosions with Electrocongulation Surg Cynec & Ob 1 1926 xlm 105

The author describes and classifies the various types of cervical erosions and discusses various

forms of treatment

In treatment by electrocoagulation the patients is placed in the dorsal position on an auto condensa tion pad connected with the indifferent pole of a dissonal current or the common outlet of dirithering current and the point of the electrode is burned or plunged into the mucosa to a depth sufficient to include all pathological tissues when the current is turned on

From 2 to 500 ma will give sufficient heat to coagulate the tissues thoroughly. The diameter in volved depends somewhat upon the length of time the tissues are exposed to the current. The dosage depends upon the judgment of the operator. Care

Mikels advises complete coagulation of all simple crossors which do not respond to medical treatment and of all complicated erosions to remove pathological tissue. He regards this method as the most conservative traitment of inflammatory lessons of the cervix and the greatest safeguard against the development of secondary miliganicy.

ALBERT W. HOLMAN M.D.

Wolfe S A The Clinical and Pathological Fea tures of Puberty Hemorrhage 1m J Obst & Gynec 1926 vii 45

Puberty hæmorrhage is a definite clinical entity a menorrhaga or metrorrhagia occurring in the absence of inflammation neoplasia and pregnancy. The soft patilous cervix is pathogomomor. The body of the uterus may or may not be enlarged. The symptoms recur after curettage but are always controlled by radium.

The curettings are abundant thickened and fre quently poly poid. Their character is due to a diffuse glandular stromal and vascular hyperplasia.

The persistence of solitary ripering follicles or the simultaneous maturation of multiple follicles changes a phi sological endometrial by perplasia into a pathological hyperplasia. These changes have been experimentally reproduced by Frank and others in labora tory animals.

Coppus luteum formation is absent. The uterus is the site of the bleeding. The hæmorrhage is due to thrombosis of the endometrial vessels with ensu ing necrobiosis and to the mechanical rupture of engogged capillaries.

The factors inaugurating persistent follicular cysts in the ovary with their concomitant endometrial hyperplasia remain a subject for future study

E L CORNELL M D

Hitzanidés E Axial Torsion of the Fibromatous

Uterus (Torsion axiale de l'uterus fibromateux)

Gynec et olst 1926 vii 193

Axial torsion of the uterus is rare only eighty five cases having been reported in the literature to date It is associated with large tumors and seldom occurs in women under 40 years of age. As a rule the tumors are implanted in the fundus of the uterus near the median line.

The pathological chringss which accompany the torsion are for the most part the result of interference with the blood supply. The uterus becomes congested and cedematous and the fibromata my pass through all the stages of degeneration as far as gangrene. The ovaries and tubes and even the broad ligaments share to a greater or less degree the

circulators stasis in the uterus. The point of rota tion is the juncture of the body of the uterus and the cervix. At this point the uterine tissue may become completely divided, continuity being maintained only by the peritoneum. Hæmatometra follows or clusion of the uterine canal and, becoming infected. results in prometra. Adhesions are common and often serve to maintain the torsion permanently In time the adhesions become very va cular with the establishment of a collateral circulation

The character of the symptome depends upon the rapidity with which the torsion occurs. Acute for sion produces acute, violent abdominal pain com parable in intensity to that of a ruptured ectopic pregnancy or a twisted ovarian cyst. The abdomen becomes rigid and tender, this making satisfactory examination impossible. The pulse and tempera ture are not altered to a degree comparable with the intensity of the other symptoms Metrorrhagin may or may not be present. When the patient is not operated upon immediately the symptoms grad ually subside exploration becomes possible and the tumor is discovered and identified with the uterus

The remission which follows the subsidence of the acute symptoms is usually of short duration, and unless operation is performed death results from peri tonitis, intestinal obstruction, or internal hæmor

rhage

Slow torsion may manifest itself in one of several ways It may simply attract attention to the pres ence of a uterine fibroid or, by arresting the men strual flow and causing enlargement of the abdomen it may suggest pregnancy. More commonly the tor ion progresses with intermittent attacks of pain of slight intensity which occur during the menstrual periods or after fatigue. It is only after the develop ment of complications such as the formation of adhesions to neighboring organs, compression of neighboring organs hæmatometra or pyometra de generation of the fibroid or peritonitis that the symptoms become alarming and bring the patient to operation

The condition is rarely recognized before opera tion Faure and Quenu emphasize the importance of two signs amenorrhoea in young women and the impossibility of introducing a uterine sound

The only treatment is surgical Usually hyster ectomy is indicated The mortality in cases operated upon has been given as 7 or 8 per cent Without

operation, it is 63 per cent

The author reports two cases

ALBERT I DE GROAT M D

Bardachzi F The Best Method of Treatment of Myomata and Hæmorrhagic Metropythies with the Roentgen Rays (Ueber die zweckmaessige Be handlung der Mome und haemorrhagischen Metro pathien mit Roentgenstrahlen) Strahlentherapie 19 6 xvi 397

The advantages of the single dose method of roentgen therapy he in the certainty and rapidity of the effect. The doses given by previous methods

were not smaller, on the contrary, they were much larger because the penetration of the earlier appa ratus was slight Today, with the use of modern apparatus in one dose sterilization, roentgen sick ness is never more than a slight and transitory indis position

The first Freiburg technique is dangerous in the hands of beginners Moreover it is inadequate In irradiation of the ovaries by modern methods every roentgen burn of the skin is to be ascribed to a tech nical error It is now possible also to prevent deep injuries Holfelder's procedure has undeniable theo retical advantages and is harmless, but because of the deep position of the organ in irradiation of the back large quantities of the rays are lost. Another disadvantage of this method is that it requires con siderable skill

The Erlangen technique gives sure results but has two disadvantages which cannot be overcome with certainty viz the danger of injuring a loop of intestine by over radiation due to a change in the patient's position and the danger of causing embolism by the compression which is necessary The second Freiburg method is sure and harmless

However besides its many advantages it has the disadvantage of causing greater roentgen sickness due to the fact that a greater area is irradiated

Single dose irradiation requires an efficient instru ment a careful plan of treatment and exact methods of measuring In modern deep therapy the saving of time and the harmless production of the necessary deep dosage are of great importance Because of his experience in carcinoma therapy and in irradiation of the ovary the author cannot agree with those who believe that further improvement in the apparatus as regards the production of harder rays would be useless

The single dose method is best used in a hospital Roentgen ickness may be alleviated by proctoclysis with sodium chloride solution. After irradiation of the ovaries injections of salt solution are unneces As a rule the irradiation should be given in one sitting. In cases of severe anæmia and severe hæmorrhages the liver and spleen should also be irradiated Of the single dose methods the distant held method appears to be best especially in cases of large tumors The author believes that in the future it will be

possible to so increase the deep effect of roentgen irradiation that the four three, and two field irradia tion will be abandoned for the one field method

MATALAS (G)

Meyer R and Kaufmann C The Value of Biopsy (Ucber den Wert der Stueckchendiagnose) Zen tralbl f Gynaek 196 l 20

Of 146 cases in which a portion of the portio was removed for histological examination carcinoma was found in twenty six In fifteen of the latter a clinical diagnosis of carcinoma had been made. On the other hand carcinoma was found on microscopic examina tion in two cases in which it was absolutely unsus

pected clinically. In 117 cases the lesions were benign erosions and ulcerations

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Of 250 specimens of endometrium from cases in which carcinoma was suspected clinically carcinoma was found in twenty nine. In 2 3 the lesion was be Carcinoma was found in nine cases which appeared clinically to be benign whereas a definitely benign condition was found in three cases in which a clinical diagnosis of malignancy had been made Most of the cases in which carcinoma was errone ously suspected were those of undernourished women in the climacterium. So far as re examina tions were possible no patients whose condition was proved benign were found to have carcinoma later

In several cases in which the specimen showed carcinoma no mahi nancy was found in the extir pated uterus The authors therefore assume that all of the pathological tissue was removed by the curet When the findings of curettage are doubtful the preliminary test should be repeated before a

radical operation is done

The fact that a benign condition was found in a large number of cases in which malignancy was sus pected clinically proves that a radical operation should never be performed without a biopsy Meyer and Laufmann do not believe that biopsy favors the spread of carcinoma and they warn against the use of the theory of a precarcinomatous state as a justi fication for operation in doubtful cases. In very rare cases the excision of a specimen from the portio may entirely remove a very small carcinoma authors report such a case in which subsequent examination of serial sections proved the surround ing tissues to be entirely free from carcinoma

FLESCH (G)

Schmitz H Hueper W and Arnold L Significance of the Histological Malignancy Index for the Prognosis and Treatment of Carcinomata of the Cervix Uteri 1m J Roent genol 10 6 XVI 30

This article is a report of the combined efforts of pathologist and clinician working together for the purpo e of ascertaining whether a pathologist can include in his report information that will assist the clinician in the treatment of carcinomata and the determination of the prognosis

For purposes of the study carcinomata of the cer vix were classified into two large groups the primary or solid and the tubular or glandular carcinomata Each of these groups was then divided into four subgroups the histological and staining characteristics

of which are described in detail

The factors used for the determination of the histological malignancy were the special cell type of malignancy arregularities in the size and shape of the cells distinctness in the outline of the cells the functional activity of the cells arregularities in the size and shape of the nuclei of the cells the staining quality of the nucles and the number of mitoses and prophases Numerical values were attached to per centage variations within each factor and the sum total designated as the histological malignancy in The average indices for the various types of carcinoma occurring in the 135 cases studied by this

method are tabulated

For the study of the significance of the malignancy index as regards the clinical course of carcinoma of the cervix the cases of sixty one of the 135 patients were used. These patients had either survived a three year period and were anatomically well or had succumbed to the disease The cases were graded according to the extent of the disease indicated by a physical examination and the end result of treat ment The clinical malignancy of the cases was graded according to the results of treatment Vari ous tables are included showing the relation of (1) the clinical grouping to the cell type the malignancy index and the clinical result (2) the cell type to the malignancy index and the clinical result and (3) the malignancy index to the clinical result

The following summary and conclusions are ap pended

1 The cell types the differentiation and the ana plastic changes of carcinomata of the cervix have been studied. They were given a numerical value the sum representing the histological malignancy

2 Immaturity of the cells a low degree of differ entiation and a high degree of anaplastic changes are invariably associated with a high malignancy

3 The greater the maturity of the cells the higher the differentiation and the less the anaplastic change

the lower the malignancy index

4 The clinical malignancy of a carcinoma depends solely on the results of treatment provided the same method of treatment is used in every case. The extent of the carcinoma influences the outcome only if it has thereby become a systemic or generalized disease A carcinoma contained within a well defined area and having a low malignancy index offers a relatively good prognosis

Comparing the histological malignancy index with the clinical findings or grouping of the carcino mata and excepting cases with systemic or general ized disease it is found that a definite relation

between the two does not exist

6 The relation of the cell type to the histological malignancy index is definite. The unripe cell type is almost always associated with a high malignancy index

The relation of cell type to the clinical result is not as definite as the relation of the malignancy index to the clinical result. The malignancy index shows a definite or proportionate relation to the re sults of treatment

8 Considering the relation of the malignancy in dex to the clinical result and excluding the group of cases with systemic or generalized disease the con clusion is reached that from a histological examina tion the pathologist can give definite information as to the degree of malignancy expressed in numbers of the malignancy index, which will enable the clim

cin to choose those cases of carcinoma which may respond with fair prospects to radiation treatment

Aboleh Hartung M D

Philipp, E., and Gornick, P. The Treatment of Cancer of the Uterus and Vagina at the University Gynecological Clinic, Berlin (Die Be bandlung des Gebaermutter und Schedcakrebses an der Universitatis Irauenklinik Berlin) – Much elen med II chnicht 19 6, lyttii 27

In this report the authors bring up to date the carenoma statistics of the University Gynecological Clinic of Berlin which were presented before the Gynecological Congress at Berlin in 1790. They review the end results of operative "nd irradiation

therapy in the period from 1913 to 1920

In all 1,104 cases of carcinoma of fundus and cerva of the uterus and vagin have been treated Two hundred and thirty five (21 3 per cent) of the patients were still alive five years later By far the greater majority were treated with the roentgen raxy or radium Only 206 were operated upon The Wertheim operation was performed Of 201 women subjected to operation (excluding six who were treated previously with radium), eighty two (40 70 per cent) were free from recurrence after five years A large percentage of these patients were given post operative prophylactic roentgen irradiation

The primary mortality after the Wertheim radical operation was 14 92 per cent. In recent years the operative mortality has decreased. The favorable end results of operation the author attributes to the fact that as a rule only the favorable cases are operated upon while those in which the condition be advanced are given irradiation theraps.

Of 805 cases of cervical carcinoma which were treated by irradiation, 180 were operable, 399 in operable and 2-6 borderline cases Of the 15-27 per cent which were cured 28-33 per cent were operable and 5-6 per cent inoperable. In the year 1916 in which only two patients were operated up on, the incidence of cure in the operable cases treated by irradiation rose to 38 per cent

Cases of carcinoma of the fundus were treated only by irradiation (at least only cases so treated are mentioned) Of forty which were treated with radium, eighteen (45 per cent) were cured These

were cases of operable carcinoma

Carcinoma of the vagina has an unfavorable prognosis Of fifty three patients with this condition who were treated with radium, only seven (13 2 percent) were lying after five year Of the fifty three cases, only ten were operable The authors are of the opinion that the results of treatment of carcinoma of the vagina cannot be greatly improved but that the incidence of cure in carcinoma of the corpus may be increased by operative treatment.

For the cure of carcinoma of the cervix they re gard operation as the most certain method, but the suggest that possibly when the technique of radium treatment has been further improved, it may give similar good results. Bégouin Two Deaths Following the Intra Uterine Application of Radium (Deux cas de mort a la suite d'application de radium intra utérin) Bull Soc d'obst et de gjute de Par, 1926 v. 137

In 137 cases of cancer of the uterus in which the author used radium a febrile peritoneal reaction which resolved favorably after a month occurred in one and death from peritonitis resulted in two

One of the patients who died was a woman 68 years of age who had an endoceryocal epithelioma As Begouin believed that hysterectomy would be dangerous in this case, he applied in tandem, two tubes of 13 mgm of radium each filtered by 0 5 mm of plathium and 2 mm of gold and covered by a rubber tube

The application was made on November 24 1025 without any incident, and the radium removed November 28 As the number of millicuries was then believed to be insufficient, the radium was removed for four days longer. On the following day the patient's temperature was between 364 and 75 degrees C, and after eight days it rose to 364 degrees C. Two days later, abdominal pain and ty mprintes developed, the general condition became poor and the bases of the lungs were congested Death occurred fifteen days after the application of the radium.

At autopsy, the peritoneal cavity was found filled with pus up to the diaphragm and a large triangular perforation was discovered in the posterior wall of the uterus. In the body of the uterus there was a fibroma about the size of a hen's egg.

In the other fatal case reported, autopsy did not reverl a uterine perforation. The author therefore concludes that the infection spread through the lymphatic channels. Satvatore Di Palma M D.

Bowing H H Carcinoma of the Cervix and Fundus Uteri Treated by Combinations of Surgery Radium, and Roentgen Ray Radiology 1926 vi 487

In all cases of irregular menstrual bleeding or vaginal discharge regardless of its character and the age of the patient, great effort should be made to arrive at an early diagnosis. All women should be instructed concerning the gravity of the apparently insignificing the gravity of the apparently insignificing the gravity of the apparently may understand the importance of being examined as soon as possible following their onset. The most efficient method of combating neoplastic disease of the cervix and fundus utern is the use of surgery, radium, and the roentgen rays in various combinations. This treatment demands close co operation between the first examining physicia the surgeon, the pathologist and the radiotherapsit

Lahey F H Removal of the Cervix in Hysterec tomy for Benign Lesions Surg Clin A 4m 1926 vi 593

Lahey describes a method of removing the major portion of the cervix in hysterectomy for benign diseases by transcervical excision without danger to the uterus without shortening the vagina and without adding to the time necessary for the usual supracervical hysterectomy. He has performed the operation eighty six times since he first described it and believes it has practically all of the advan tages of a complete hysterectomy with none of the disadvantages of the latter

After the uterine appendage have been tied off and cut and the uterine afteries on either side of the cervix have been clamped with Ochsner clamps and cut the uteru remains attached only by the cervix An incision is made in the anterior surface of the cervix and grasped with double hooks and a similar incision made in the posterior surface and likewise grasped with double hooks. This incl ion is made only to a depth of about 18 in and completely en circles the cervix

By exerting traction on the uterus and continuing the inci ion downward keeping it always only about in from the outer wall of the cervix the cervix is gradually pulled upward and dissected from its shell just as the finger of a tight glove is everted by the extraction of the finger from it The entire cer viv is finally extracted a gauze strip is pushed through the shell of the cervix into the vagina and the tumps of the broad and round ligaments are sutured into the cavity left by the removal of the cervix. The only disadvantage in the technique is the oozing which may now occur but this can be controlled by placing a mattress suture through the shell of the cervix

By the removal of the cervical stump the danger of malignancy is les ened and endocervicitis is pre HARR W FINA M D vented

ADNEXAL AND PERIUTERINE CONDITIONS

Pratt J P and Allen E Chulcal Tests of the Ovarian Follicular Hormone with a Note on Experimental Work on Monkeys J 1m M 1926 PXXXVI 1964

From experiments on monkeys and earlier experi ments on lower mammals with regard to the ovarian follicular hormone the authors draw the following conclu ions The ovarian follocular hormone starts the

periodic growth processes in the female genital tract In case ovulation occurs the corpus luteum in woman and perhaps also in other primates may con tinue this anabolic endocrine influence, which probably decreases as the next menses approach

3 Menstruation seems to be due partly to the temporary absence of this secretion after it has been

acting for a certain time

Since ovulation followed by corpus luteum formation often doe not occur a specific secretion of the corpus luter m is not a necessary causal factor in the menstrual cycle. That the corpus luteum max have a regulatory influence is not questioned

5 Thi substan e or a very similar one is probably ecreted by or stored in the placenta. Its continyous availability throughout the gestation period would account for the absence of menstruation dur ing pregnancy

Live series of injections of the ovarian follicular hormone in women with an artificial menopause have been made by the authors All of these patients were in the third decade of life. The interval between the removal of the ovaries and the injection ranged from two months to two years. In each case exami nation of the patient before the injection showed the atrophy or involvtion of the uters which follows loss of the ovaries The dosage used ranged from o 5 to 3 rat units morning and evening daily for two or three weeks The results were fairly uniform

A few days after the injections were begun an increase in the size of the uterus was noted. This growth continued for several days. During the lat ter days of the injection period the rapidity of the growth was less noticeable. As soon as the injections were stopped the uterus diminished in size returning in a few days to the size noted before the injections were begun. At the height of its growth some change of color and a definite increase in the circu lation of the cervix were noted. On two occasions after the injections were stopped a very small streak of blood appeared

The patients also noted the increase in the size of the uterus and mentioned the feeling of pressure and heaviness in the pelvis which they had formerly experienced especially at the time of menstruation Many other subjective symptoms were noted but these must be greatly discounted on account of the

nationts desire to have them reproduced

The outstanding features associated with the natural menopause are the hot flashes and nervous ness Since these are subjective symptoms they do not constitute especially good criteria of the effects of the follicular hormone. However all of the patients treated for them reported imp ovement

In cases of scants menstruation six series of in jections were made. The patients chosen were in the second or third decade of life. In all of them menstruation had been irregular either in interval or in amount since its onset. One of these cases was of unusual interest in that two years previous to the study the patient had been given thyroid extract by mouth with a resulting increase in the frequency of menstruation but not in the amount

In experiments on immuture unimals one of the striking results was the histoning of sexual maturity the cestrous cycle being established much earlier than in the controls CARL H DAVIS M D

MISCELLANEOUS

Kauffmann E Cancer Statistics Before During and Since the War (Krebsstatistische Unter u chungen mit be onderer Beruecksichtigung der Zeit vor waehrend und nach dem Krieg) Zentralbl f Gynack 1926 ! 198

This article is an interesting contribution on the question as to the importance of general living con

ditions in the causation and pathogenesis of cancer of the female genitalia

In a study of about 2 000 cases of carcinoma of the gential organs (uterus, vulva vagina, and ovaries) it was found that before the war the incidence of such cancers was highest between the ages of 50 and 55 years, while during the war it was high est between the ages of 46 and 50 years and since the war it has been highest between the ages of 41 and 45 years. The change in the incidence during the third decade from 4 per cent before the war to 39 per cent during the war and 5 per cent since the war is not regarded by the author as of much significance as it comes within the limits of error. The same conclusion is drawn with regard to the slight increase in carcinoma between the ages of 56 and 70 years.

With regard to carcinoma of the cervix it was found that, since the war, there has been an increase in the incidence of the condition between the ages of 20 and 35 years, while between the ages of 31 and 35 years there has been a decrease from 18 per cent be fore the war to 11 3 per cent since the war. On the whole, however, there has been no noteworthy change in the age incidence. The findings with regard to carcinoma of the fundus were similar.

Cancers of the vulva and vagina seem to show a higher incidence in older women, but this may be

due to the increase in cancers in general

Cancers of the ovary, which have become less fre
quent since before the war, show a shifting of the
highest age incidence similar to that of cancer of
the uterus

With regard to the relationship between pregnancy and the miedence of cancer the author states that no definite relationship between carcinoma of the cervix and the number of children can be established Numerous births do not favor the appearance of cancer I is possible, however, that in the case of a woman with a predisposition to malignancy the trauma of one or more labors might stimulate the development of cancer A higher incidence of cancer in nullipara and women who had borne few children as compared with those who had had numerous children may be ascribed to differences in hving conditions Carcinoma of the body of the uterus was most frequent in nulliparæ and women who had borne few children

From the standpoint of the social status it was found that cancer is three times as common among the poor as among the rich. Under the unfavorable nutritional conditions which prevailed during the war the incidence of cancer increased among the poor but decrea ed among the rich. Since the war, the incidence in both groups has returned to the pre war level.

In general, cancer is twice as common in large cities as in small towns and rural districts

With regard to the inheritability of cancer the author states that a predisposition to the condition may be inherited. Among the cases reviewed there were numerous cancer families.

In general, the investigation reported seems to indicate that social and cultural factors play a role in the occurrence of cancer Graff (C)

Reeb Rectal Lesions Following Gynecological Lapritotomies (Lesions du rectum au cours des laparotomies gynecologiques) Bull Soc d'obst et de gynec d'Par 1926 xv 154

Reeb reports five cases of rectal lesions due to injury of the rectum in a gnecological operation. In three cases the laparotomy was performed for puerperal adnessits in one case for intralgamentous fibromyoma and in one for an infected tubal pregnancy. In one, the surgeon sassistant, instead of introducing a vaginal drain into the cuil de sac in troduced it through the rectum and the surgeon opened the rectum in cutting for the drain Recovery resulted in all of the cases except the last one men tioned.

Of the three cases in which the rectum was sutured primary union resulted in only one. In the two others, a fistula developed on the seventh or eighth day but closed spontaneously between the thirteenth and twenty fifth days. The non sutured lesion closed on the tenth day.

SALVATORE DI PALMA M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Lundh G The Problem of Age and Primiparity

I rom a study of more than 7 000 ptimipares be tween the ages of 13 and 47 years who were seen at the Women's Clime of the University of Lund in the period from 1900 to 1922 the author draws the following conclusions

1 There seems to be a direct relation between the time of the first menstruation and the occurrence of the first pregnancy the later the first pregnancy the later the first flow the later the first pregnancy. However on account of the unreliability of the patients statements with regard to the onset of menstruation not much importance can be uttributed to this finding.

Of the morbid conditions occurring during gestation only the toxemias directly related to pregnancy—hyperemest albuminum and eclampia—show an increase in the oldest and the joungest primipars. In the oldest women they show a moder ate increase and in the very youngest only a very slight increase.

3 The frequency of premature labor is highest among the youngest primiparse

4. The optimum duration of libor is reached at about the twenty second very Therefore from this point of view the best time for a first labor is between the nineteenth and twenty such years. After the twenty fifth year the duration of labor lengthens progressively in complicated cases its prolongition is particularly increased. Labor is prolonged also in the very voungest primipaire but in these the rise seems less deependent upon complications.

seems ress dependent upon tronspirations.

§ Sure evidence as to the cause or causes of the proved prolongation of labor with age is difficult to obtain from a statistical investigation. Judging from the case of the proved prolongation of the case of the provided in the complexity of the contracted pelos anomalous presentation of the fetus and premature rupture of the membrances—may certainly be considered as more common in old primiparts but these cannot be regarded as the actual cause of the prolongation. The principal cause is probably dissue atrophy resulting in inade outset of the prolongation and the principal cause is probably dissue atrophy resulting in inade outset of the prolongation.

actual cruss of the prolongation. The principal cause is probably disuse atrophy resulting in inade quacy of the labor pains and rigidity of the soft parts. 6 Among the other complications of labor eclampsia shows a definite increase in old primip are and to some extent also in the youngest.

7 The frequency of all types of operative interference and also of perincal ruptures shows a marked rise with advancing age and is lowest in the very youngest primiparae

8 There is a prolongation of the placental stage in old primipara and also in the youngest but in the latter it is slight. The number of interventions in this stage of labor shows a considerable increase with age

o Age does not seem to exercise any influence upon the weight length head dimensions or sex of the child. The frequency of twins rises with the age of the mother.

TO Infantile morbidity and mortality show a marked increase with the age of the mother

11 The maternal morbidity in the puerperium shows no definite influence from age. As regards

the mortality a certain influence from age cannot be excluded especially because of deaths from eclamp sia 12 The proved increase with age in the risks

12 The proved increase with age in the risks encountered by primipara, appears to be manifested especially in women who are married for quite a long while before they become pregnant

Andérodies and Balard The Obstetrical History of a Patient Who Had Seven Pregnancies After a Cres trean Section (Histoire of stétricale d'une femme ayant eu sept grossesses apres une opération

femme ayant eu sept grossesses apres une opération césarienne) Bull Soc d'obst et d'gruée de l'ar 19 6 v. 50

The authors report the case of a rachitic woman with a deformed pelvis who was delivered by cæ sarean section at the age of 20 years. The patient s second pregnancy terminated in abortion in the sixth month. In her third pregnancy, a living child weighing 20 kilos and presenting by the breech was extracted by the Champetier method after the patient had been in labor for eight hours. The fourth pregnancy ended in abortion in the third month and the fifth ended in abortion in the sixth week. The sixth terminated in the spontaneous de livery of a living child at term. The child died from meningitis at the age of 15 months. The seventh pregnancy terminated in the premature delivery of a living child in the eighth month. The child died from debility a month later. In the eighth preg-nancy, the fetal head, which was high above the pelvic brim and to the left failed to become engaged after full dilatation of the cervix and as several trials with forceps were unsuccessful and the fetal heart could not be heard the head was perforated with a basiotribe A child weighing 3 of kilo without the brun was extracted SALVATORI, DI PALMA M D

Gurjuy Lassalle and Sendralt The Luttlejation of the Fetus and the Thyrold in the Elevation of the Brati Metabolism During Pregnancy (La participation fetale et thyroidienne dans Lickation du mitabolisme basal pendant la grossesse) Gynée et obst. 1926 xiii 173

The authors discuss the question as to the cause of the constant and marked elevation of the basal metabolism which is observed during pregnancy. Toward the thirty eighth week of pregnancy the metabolism is 35 per cent above the normal and after delivery it falls rapidly to 15 per cent on the third day and to normal on the seventh day.

The manifest activity of the thyroid kland which is often noted during pregnancy suggests the plausi ble theory, accepted by a number of obstetricians, that the increased basal metabohem is the result of a physiological hyperthyroidism. However this theory does not explain the fact that the basal metabohism is further increased by a twin pregnancy and that after delivery or the death of the fetus in the uterus the metabohism rapidly returns to normal

The authors believe that the fetus influences the metabolism directly without the intervention of the thyroid, otherwise the effect of delivery or the death of the fetus would be less prompt. Of sixteen patients studied by the authors, only one showed symptoms of hyperthyroidism as determined by the physical examination the metabolic rite the oculo cardiac reflex, and the Goetsch and Claude Porsk Tractions.

Talbot J E Toxemias of Pregnancy Unantic M J 19 6 xxix 671

The author believes that toxicimis of pregnance are always associated with foci of chronic infection from which the infection is borne by the blood to other organs including, the placental site where it produces infarction. In support of his theory he cites the fact that bacterizem a pyzemia and retro placental abscesses are frequently associated with toxicimias. He advises against treatment of chronic foci in the presence of a toxicimia.

ALBERT W HOLMAN M D

Polak J O The Present Status of the Toxemias of Pregnancy J Am W Ass 19 6 lyryyn 2 6 Greenhill J P Eclampsia at the Chicago Lying In Hospital Immediate and Late Results J

Im M Ass 10 6 IVXVII 228
 Davis A B and Harrar J A Toxæmia of Pregnancy 879 Cases with Convulsions at the New York Lying In Hospital J Am M Ass 19 6

lvxvii 233

McNeile L G and Vruwink, J Magnesium Sul
phate Intravenously in the Care and Treat
ment of Pre Eclampsia and Eclampsia J Am
1/ 1ss 1936 [vxvvii 236]

Polas discusses hyperomesis, the pre eclamptic toxemias and eclampsia. He states that at present all clinical evidence tends to substantiate the theory that hypertmesis is due to a vicious cycle beginning with a carbon drate deficiency, and that the pathological changes found in the liver, lidneys and blood are the result of star ation and dehydration. Other causes are a neurogenic factor and intestinal in towaction. The carbohy drate deficiency is due to the unexpected demands for glycogen of the fetus and growing uterus and a deficiency due to the nausea and vomiting and consequent lessened in

take Continued vomiting decreases the urnary output, increases the concentration of the body fluids, and results in the development of general toxic symptoms. That the injury to the Judney is not great is shown by the rapid disappearance of the albumin from the urine after recovery, when the uterus is emptied, or when duries is produced.

Pre eclamptic toxemia is the result of a dysfunction and improper correlation of the eliminative sys-

tem and endocrine control

GREENHILL has analyzed eighty three cases of eclampsia which occurred in 29 587 obstetrical cases admitted to the Chicago Lying In Hospital in the period from July 1, 1917 to January 1 1926

DAVIS and HARRAR report upon 879 cases of tox æmia occurring in 152,748 obstetrical cases admitted

to the New York Lying In Hospital

McNeile and Vruwink discuss the use of mag nesium sulphate in the treatment of 142 cases of

pre eclamptic and eclamptic toxemias

Polak, Davis and Harrar, McNeile and Vruwink agree in general that the treatment should include the administration of morphine rest in bed the forcing of fluids, a low protein salt free duet and the intravenous administration of magnesium sulphate Polak gives 100 c cm of a 25 per cent solution of magnesium sulphate McNeile and Vruwink give 20 c cm of a 10 per cent solution and Davis and Harrar 4 c cm of a 50 per cent solution, repeating if necessary. In cases with any manifestation of toxemia Polak combines the forcing of carbo hydrites with the administration of insuhin by mouth or intravenously.

Greenhill favors emptying the uterus in most cases. In the cases of primipare with a viable infant and an undilated cervix he performs cæsarean sec tion under local anæsthesia.

McNeile also advocates section in the cases of

primipare if there are no results from the conserva tive treatment

Davis recommends section only for cases in which

Davis recommends section only for cases in which there is no improvement under conservative treat ment

Polal advises against section unless there is an obstetrical indication Albert W. Holman M.D.

Stroganoff B The Improved Prophylactic Method of Treating Eclampsia with Comments on the Variations Suggested by Williams Stander Speidel and King 1m J Obsi & Gymc 1926 x1, 756

The improved prophylactic method which for twenty eight years has been giving the best results in the prevention of eclampsia is used at the present time without modification by very few obstetricians. Notwithstanding the fact that many thousands of cases have been treated successfully by this method and its variations, the incredulous attitude of many obtascians toward it has not been changed

Stroganoff attributes the failure of others to obtain as favorable results with this method to imperfect technique. He believes they have not used the

drugs in the proper combinations or for the proper periods of time and that their patients have not received the requisite nursing

On the basis of 300 cases of eclampian treated by the improved prophylactic method and 578 earlier cases treated by a less perfect form of the prophy lactic method. Stroganofi has reached the conclusion that an almost absolutely Aworable prognosis can be given for the mothers in cases that are not neglected.

The mortality of eclampsia and albuminuma in relation to delivery is next to if not equal to that of sepsis. The author has tried to set up a standard of possible attainment from the use of the improved prophylactic method. He asserts that its variations have the effect merely of decreasing its value.

On the basis of theoretical analysis as well as a consideration of the facts it appears that vanations of the conservative treatment of eclampsia can scarcely give better results than the improved pro philactic method which can be applied to patients at home as well as to those in lying in hospitals

Netzer F The Treatment of Placenta Prævia (Zur Therapie der Placenta praevia) Deutsche med 11 chuschr 1025 h 1003

The author reports the results of the treatment of Clinic at Jena during the period from 1010 to 1925 inclusive. Of the 5.754 births occurring during this period 120 (200 per cent) were complicated by placenta previa. In thirty six (30 per cent) the placenta previa was of the central type in forty nin (44 per cent) of the marginal type cent) of the five (20 per cent) of the marginal type.

Recasse of the hamorrhage only a relatively, small number (20 per cent) of the patients reached term. One fourth reached the last quarter of preg nance, but the rest were dehvered before the eighth month. There were eight maternal deaths six due to hamorrhage one to peritonitis and one to embolism. The maternal mortality was therefore 6.66 per cent. Seven of the deaths occurred during the time (10.18) when the older methods of delivery, were used. In the last fifty four cases in which the in dividual method of treatment was employed there was only one maternal death.

The sixty one mothers who were delivered up to the year 1918 according to the older method by the vaginal route gave birth to sixty two children. Of the thirty eight hiving infants twenty five died during delivery. Of the fourteen which were not viable ten died before the mother entered the climic

Since 1010 the individual method of deliver, has been used. Of the fifty four children born since that time twenty nine were born alive but of these four died during delivery. Twenty two were not viable (twenty weighed less than 1 500 gm and 2 less than 000 gm) and three died in utero

In the puerperium spontaneous expulsion of the placenta occurred in 27 8 per cent of the cases the Cred. method was necessary in 52 per cent and manual extraction of the adherent placenta was done in 202 per cent In eleven cases (9° per cent) clamping of the parametrial tissues was necessitated by aton) and in seven cases (5° per cent) by tears of the cervix

Conra (Conra
Wagner H. The Cases of Placents Pressia at the Lying in Hospital in Karlsrube During the Years 1893 to 1923 (Die Placenta praevia Faelle des Woechnerinnenheims Karlsruhe in den Jahren 1893-1913) Zischr f Gebutish u Gynack 1916 Lytur 600.

Among 10 207 deliveries at the Karlstube Lying In Hospital in the thirty year period from 1803 to 1023 there were 172 cases of placenta previa The multiparae with placenta pravia very considerably outnumbered the primiparae with the condition. In these cases there were sevently two full term children the fetal mortiality as 3 52 9 per cent the maternal mortiality 8 1 per cent and the maternal mortiality 8 1 per cent and the maternal morbidity 22 per cent. Three hundred and twenty four cases showed a fairly normal course

In the early years packing was done forty eight times with a generally satisfactory result but the danger of infection was very great in these cases as compared with those in which packing was not done Later up to the year 1005 combined version was the most important part of the treatment. In thirty-one of seventy-one cases further expulsion with extension traction after the version was left to the natural powers and in forty an earlier or later extraction was added. The latter method gave but was associated with a somewhat higher pureprent morbidity.

The metreurysis so warmly recommended by the kuestner school and practiced after 1090, was dis appointing as in thirty-eight cases in which it was followed by version and extraction there were six fatalities from harmorrhage and although the per centage of children born allow was slightly higher than in other cases the puerperal morbidity was 10 per cent higher

The introduction of easarean section first of the classical type and later of the transperitioneal type resulted in marked improvement. In the cases so treated there was no maternal mortality, the puer peral period was febrile in only 8 3 per cent, and the child was born alive in 83 3 per cent.

CORDUA (G)

heller The Treatment of Cystic Tumors of the Ovary During Pregnancy and at the Time of Delivery (Traitement des tumeurs kystiques de l'oxaite pendant la grossesse et lor de l'accouche ment) Bull Soc d'obst et de gynec de Par 1926 xv 141

Practically all obstetricians recommend the re moval of an ovarian cyst during pregnancy. According to Williams torsion of ovarian cysts occurs three times as often during pregnancy as during the nonpregnant state, and to avoid this complication the ablation of the cyst is indicated

At the time of delivery an overian cyst which does not ascend with the uterus may obstruct the passage of the fetus. After delivery infection of the cyst contents may cause serious complications.

The author reports three cases of ovarian cyst associated with pregnancy. The first was that of a priming a 33 years of age who was seen for the first time in the fifth month of pregnancy. Examination revealed a large cystic tumor which completely filled the posterior cul de sac. The cervix was small and pushed behind the symphysis by the mass. The fetal heart was not heard, but fetal movements were felt. A diagnosis of ovarian cyst or fibromyoma was made.

As the patient insisted that the life of the child should not be endangered intervention was post poned Subsequently a positive diagnosis of ovarian cyst fixed in the posterior cul de sac was made. One hour after the rupture of the membranes in the ninth month, casarean section was done and after the uterus had contracted the ovarian cist was removed. The cyst measured 30 by 20 cm. On the right side an ovarian dermoid cyst the size of a lemon was found. A resection of the right ovary was therefore done. The patient made an uneventful recovery.

The second case reported was that of a primipara 24 years of age who came to the hospital because of an incomplete abortion at the end of the second month of pregnancy A curettage was performed and a cyst of the left ovary was found. The patient was later re admitted to the hospital in the second month of pregnancy The ovarian cyst was then about the size of an orange Operation was advised but refused In the ninth month of her pregnancy the patient was again admitted to the hospital The cyst then completely filled the pouch of Douglas pushing the cervix behind the symphysis As Lon ditions did not seem favorable for intervention the patient was allowed to go into labor with the hope that the uterine contractions would push the cyst up into the abdominal cavity Labor pains began and then stopped Two days later, labor began again, and on vaginal examination the cyst could not be felt Delivery resulted normally On the tenth day another examination failed to reveal the cyst, this proving that it had been ruptured by the uterine contractions and its contents absorbed

The third case was that of a primipara who had noticed agradual enlargement in the size of her ab domen for a year. No other signs or symptoms were present. When the patient came to the climic to determine the stage of her pregnancy, she stated that her last menstruation had occurred five months previously. On examination, the abdomen was found very much distended by intra abdominal fluid. At first it was impossible to ascertain definitely whether or not the fluid was free in the abdominal cavity However, a diagnosis of large ovarian cyst was made. The cyst was punctured through a small in

cision made below the umbilicus, 11½ liters of clear fluid were evacuated, and the rest of the cyst, which belonged to the left ovary, was ablated The pregnancy continued to term

SALIATORE DI PALMA M D

Gyet Extra Uterine Pregirancy Elimination of the Fetus into the Bladder and Then by Way of the Urethra Right Pyonephrosis Nephros tomy Ureterolysis (Grossesse extra uterine elim ination du foctus dain, la vesse puis par luretre pyonephrose droite nephrostomic ureterolyse) J d uroli mild et chir 1926 vo. 436

The patient whose case is reported was a woman 25 years old who had had two normal pregnancies the last one four years previously. For two years she had had attacks of abdominal pain followed by the passage of gravel in the urine. In April she had humaturia for three days. In June she had an at tack of acute pain localized in the right flank and associated with vomiting vertigo, and syncope Menstruation had not occurred since April.

A diagnosis of extra uterine pregnancy was made. but on account of enlargement of the right kidney and pyuria the possibility of a pyelonephritis of pregnancy was considered. The urine cleared up quickly under treatment with urotropine, but about two weeks later the pain in the right lumbar and iline fossæ returned and there was daily hæmaturia with the expulsion of debris. The urine was found to contain blood and colon bacilli. On the following night there was an attack of acute pain with loss of the ability to prinate and the sensation of an obstruction in the urethra Soon afterward the nurse withdrew from the urethra a protruding structure which appeared to be a four months' fetus Un tortunately this was thrown away before further examinations could be made. Its expulsion was followed for several days by hæmaturia and metror rhagia The latter was relieved by digital curettage The uterine cavity was small and contained no re tained placenta

In October the patient had another attack of pain oligura pyura and fever with enlargement of the right kidney. Vaginal examination revealed a soft rounded miss in front of the uterus. On cysto copic examination a papillomatous mass was found on the upper wall of the bladder. In the center of this mass there was a dark area into which a ureteral sound could be passed for a distance of 3 cm. The mass was believed to be a placenta which had entered the bladder during the course of a tubal pregnancy and the dark area the communication between the bladder and the tube.

A shaggy clothke mass which was later passed from the urethra was examined histologically and found to consist of fibrin necrotic cells, and in one place rounded structures which appeared to be necrotic placental villi Exploration of the right ureter two months later for a suspected ureteral stone, revealed evidences of a severe pelvic inflammation and adjacent to the bladder and adherent to the bladder and adherent

to the ureter a mass which was identified as the right overy and the remains of the right tube

The author gives a brief review of the literature Unlike his case most of the cases of vesical delivery which have been recorded were cases of long standing encysted extra uterine pregnancy

LAWRENCE JACQUES M D

Meyer C Extra Utetine Pregnancy Perforating the Urinary Bladder (Grossesse extra utenne perforée dans la vessie) Bull Soc d'obst et de gjinéc de Par 1926 xv 145

A woman 30 years of age consulted the author for the relief of vague pans in the lower abdomen Menatruation had always been normal in most respects but occurred sometimes before and some times later than expected. The last menstruation had been two day. late but otherwise was practically normal.

Naginal examination revealed shight tenderness and contraction of the fornices due to old adhesions. The cul de sac was free Naginal douches were prescribed.

Twenty four hours later vomiting began and the abdomen became distended. The abdomen was only slightly tender however and nothing definite could be felt on palpation. There was no vaginal bleeding and no collarse.

Two days later the abdomen was soft the vomit ing had ceased and the temperature was normal. The general condition then seemed to be excel leint but the patient complained of tensemus and burning on urnation. On vaginal examination a small tender tumor was then felt in the left cul de sac. A diagnosis of pyosalpinx and pelvic peritonitis was made.

Suddenly large quantities of blood were expelled through the creth a and cystoscopic examination revealed a tear in the left fundus of the bladder Catheterization of the ureters yielded normal urine

Laparotomy revealed an infralgamentous extra uterine pregnancy on the left side which bad per forated into the bladder. A subtotal hysterectomy with removal of the left adoexa was done and abdominal drainage established. A slight amount of blood was found in the utine for two days. Con valescence was uneventful.

The author attributes the abnormal implantation of the orum and the perforation of the bladder to disease of the adnera causing the tube to become adherent to the bladder with a portion of the broad legament. Salvatore ID PLIMA M D

Novak E Combined Intra Uterine and Extra Uterine Pregnancy with a Report of 276 Cases Including Two New Cases Observed by the Author Surg Gyne & Obst. 1926 Alu 6

Noval has collected thirty four cases of cocusting intra uterne and extra uterine pregnancies which have been reported since Neugebauer's second paper in 1913. These and two cases of his own bring the total number to date up to 2,6

The cases are grouped into those with a history suggesting ectopic pregnancy and those in which the signs of the intra uterine pregnancy dominate the clinical picture. In Neugebauer a first series of 1.0 cases the diagnosis was made before operation or delivery in only 4 per cent and in his econd series of seventy four cases in only 10 per cent. If very definite uterine enlargement can be made out in a case which otherwise suggests ectopic pregnancy the possibility of the combined condition should be borne in mind especially if there is no external bleeding. In some case, both prespancies have advanced to term and in nine of such cases both children were delivered alive the abdominal child by section and the intra uterine child usually by the natural canal

The treatment must be adapted to the indications of the individual case. As it is the rupture of the extra uterine pregnancy which is responsible for the symptoms in the larger number of cases and as this occurs almost always in the early months of preg nancy a laparotomy is performed even if the asso ciation of intra uterine pregnancy is not recognized In the occasional case abortion of the intra uterine pregnancy has already occurred but has not been recognized If continuous and free bleeding occurs and a unilateral mass is present at is well to perform a gentle curettage and make a microscopic examina tion of the curettings before resorting to laparotomy The finding of villi settles the diagnosis of a recent intra uterine pregnancy. The extra uterine preg nancy should then be managed along the usual surgical lines

The author gives a brief report of each of the thirty four cases described since 1913 ALBERT W. HOLMAN M.D.

LABOR AND ITS COMPLICATIONS

urtz II The Etiology of Lacerations of the Uterus with Regard to the Pathologico Ana tomical Condutions (Die Aetiologie der Uterus zerreissungen unter Berucksichtigung der pathologisch anatomischen Verhaeltnisse) Zischr f Geburih is Gynack 1902 itxxiv 615

Kurtz discusses only spontaneous ruptures of the uterus Important factors in such ruptures are mus cle defects due to abrasions other intra uterine pro cedures including those of a criminal nature injuries of the uterine wall in manual separation of the pla centa the Brayton Hicks maneuver etc congenital malformations of the uterus proliferation of the mucous membrane into the musculature patholog ical insertions of the ovum licatrix formation fol lowing section a poor general condition with decreased resistance of the uterine musculature and degenerative and inflammatory processes of the uterine wall Often however the cause cannot be determined In conclusion the author calls attention to the cases of rupture which occur in conjunction with the use of pituitary preparations such as pitui CORDUA (G) trın

Niedermeyer The Defects and Dangers of Publot omy (Fehler und Gesahren bei der Lubiotomie) Zentralbl f Gynack 19 6 l 2 1

The author discusses the defects and dangers of pubotomy on the basis of two cases with numerous complications which he reports in detail. This procedure is associated with the danger of himorrhagic from the injury of hollow organs and from the sawed bone, of hematoma formation with its sequeley, in fection suppuration, and possibly thrombosis of unsatisfactory union of the pelvic fracture with pseudarthrosis of injuries of the bludder with in continence, of phlegmon of the space of Retzius the prevescial tissue, and of injuries of the soft tissues especially in primiparte

These dangers, which he was unable to climinate even with the use of a special instrument he devised to facilitate the operation, have led the author to change his opinion regarding publication was the technique of crearean section has been greatly improved, he now prefers this operation to any procedure for widening the Delyis Newarth (6).

PUERPERIUM AND ITS COMPLICATIONS

Masieri N The Pathogenesis of the Puerperal Psychoses (Contribute allo studio della patogenesi delle psicosi puerperali) Riv ital di gince 1926 iv 162

Of twenty four cases of puerperal psychosis tudied by the author the condition occurred be tween the third and eighth months of pregnancy in five (20 8 per cent), during the first week of the puerperum in eleven (45 8 per cent), and between the fifth and eighth months of the nur.ing period in

eight (33 3 per cent)

In ten cases (41 6 per cent) the condition was of the amential type, in seven (22 2 per cent) of the manic depressive type and in one (4 2 per cent) of the hysterical type. Of those in which it developed during pregnancy two were of the phrino cplicitive one of the phreno hysterical type, one of the phreno manced pressive type, and one of the phreno amential type. Of those in which the condition developed during the purpernum, seven were of the phreno amential type, three of the demential present type, and one of the recurrent phreno epilicitic type. During the nursing period the phreno mind depressive type developed in six and the phreno amential type, three six etype developed in six and the phreno amential type in two.

The duration, course, and pro, nosis of the vitious types differed considerably. The prognosis is most acorable in the amential type. In this condition beredity does not seem to be a factor. In most of the cases there was only one attack which livted, on the average for from four months to a year. Occasionally, however, the duration of the attick year only a week, and occasionally the condition recurred in later years independently of the preciderate, with attacks having, the character uses of a mind depressive psycholos. The author believes that in the latterty peofice either that they for his amountal.

form was in reality the beginning of the mame depressive insanity

Of the ten patients with the amential type of psychosis, six were cured, one died during the first attack, and three had recurrences with attacks of the manie depressive form

Of the seven women with the manie depressive type of psychosis three were cured at the time this report was made, not hiving had any attacks for several years and four had been in the insance asylum for several years.

Of the three patients with dementic prices, two died and one has been in the asylum for twelve years. The author behaves that in this type of

psychosis the prognosis is invariably poor
Of the four patients with a psychosis of the

hystero epileptic type, three are insine and one has recurrences of the condition

The author draws the following conclusions

1 The psychoses which have their first manifesta

tion during pregnancy constitute about a sixth of all psychoses in the female

They occur more often during the puerpergum,

less often during the nursing state, and still less frequently during pregnancy

3. Of the psychoses which occur during pref nancy and the nursing period, those of the depressive form are most common. The manifeed forms occur usually during the nucroerium.

4 In the pathogenesis of the purperal psychoses there are many factors. In the amential forms, the scrious organic changes due to esh ustion and toxic or infectious processes may be responsible. In the others there is a psychopathic heredity. In all of the forms the changes occurring in the hormonic interfundular equilibrium during the gravid state and toxymin are of importance.

5 A cure is obt uncil in about 60 per cent of the cases of the amental type, in 35 per cent of those of the main depressive type, in none of those of dementia prices, and in 25 per cent of the cases of the hysteric cylicpie type.

SALVATORE DEPAINS, M.D.

H'iggstriim, l' Hous I ollowing Cats are in Section (Unbet Ileus nach Kaiserschnitt) Acts obst et gynee Seand, 1926 iv, 286

In addition to five cases of his own of intestinal obstruction following creatern section, the author has collected thirty cases from the literature. The most common cases of this complication is the formation of adhesions between the attents and other organs in the abdominal cavity.

The measures used in the diagnoss should include augustation of the abdomen, a white blood cell count, and Nove examination. In the differented diagnose, early peritoritis must be considered

the privention of adiasions after casarcan section requires a good technique, struct asep is, and carefully most rols. The incision in the uterus should be made retrovedeally in the cervix and not in the corous or funda.

The treatment of postoperative ileus should be hemin as soon as po sible. High intestinal lavage should be tried first. If this fails to give the desired result a second lanarotomy should be performed for the removal of the cause of the obstruction En terostomy should be used in only exceptional cases

The prognosis of ileus following casarean section is unfavorable the mortality being between 30 and so per cent but the author believes it can be im proved by earlier operation for the removal of the

cause of the obstruction

Schwarz O and Dieckmann W J Angerobic Streptococci Their Rôle in Puerperal Infection South M J 1926 xix 470

The role of anaerobic streptococci as a causative factor in puerperal infection has received little consideration by English and American obstetri cians. The author believe that many postpartum infections with negative cultures but with obvious chinical infections would be found positive if cultures were made for annerobic organisms

In 100. Little reported a case of serious puerperal infection due to anaerobic streptococci which was seen on the service of Williams

Schottmuller in 1010 reported twenty five cases of infection with an anaerobic streptococcus in which the mortality was 50 per cent. Most of these were puerperal infections following abortion. In this

group the mortality was at per cent. In puerperal thrombophlebitis due to anaerobic streptococci the mortality was a8 per cent. Schottmuller objects to the view that these bacteria are para ites invading the body after disease. He regards them as virulent pathogenic organisms because when once they have invaded the tissues the thrombi or blood stream they have pathological properties. Because of the foul smelling lochia due to its presence in puerperal sensis Schottmuller named the organism which he isolated in his series of cases the streptococcus putridus

In a monograph published in 1923 Schottmuller cited 231 fatal puerperal cases following labor in which the streptococcus putridus was found seventy two times

Of 165 uterine cultures and blood cultures made by the authors in suspected infected cales seen

since July 1924 sixty seven were positive for an anaerobic streptococcus This organism like those of other puerperal infections has the power of destroying red blood cells and lowering the hæmoglobin content of the blood Blood transfusion by the citrate method was advised. From 500 to 800 c.cm of blood was given at intervals of from three to seven days

Forced feedings with the nasal tube if necessary and thorough utering cleaning are necessary adjuncts CHARLES 1 DUBOIS M D

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Iwanitzkij, M. F. The Anatomy of the Renai Pel vis (Zur Anatomie des Nierenbeckens) Verhandl d 16 russ Chir. Kong, Moscow 1924, p. 658

The author studied the form of the renal pelvis by the corrosion method in eighty five cadavers. Three types were found. (1) a wide, plump pelvis without major calices, (2) the so called 'absent pelvis in which the major calices, becoming confluent, go directly over into the ureter, and (3) the normal pelvis with major and minor calices.

The last form is typical for the human being According to the classification of Schewkunenkos it is the complete type. It is found in 70 per cent of human bodies and is associated with a moderately wide inferior thoracic aperture. In cases of extremely wide inferior thoracic aperture, the first type men tioned is found. This is to be regarded as the embryonic type. In cases of narrow aperture, the second type is found. This form is characteristic of certain mammals such as the sea hon and the bear In man the first and second forms are to be regarded as incomplete types or as atavistic remnints which in time will disappear.

Cross W W The Fluoroscope as an Aid to Making Pyelograms J Urol 19 6 xvi 37

The author has used the fluoroscope in making pyelograms in about 200 cases. Under fluoroscopic control there is less danger of overdistending the kidney pelvis, the mobility of the kidney is easily ascertained, the change from normal action is observed, and stones that are not suspected can be seen by turning the patient as the filling progres es. Training in \ ray work is essential for this type of examination.

I am during pyelography may be due to the post ton of the catheter. If the typ of the catheter is in a cally, pain may be produced by even a small amount of fluid. It can be releved by pulling the catheter down into the pelvis. When the catheter is below the hadney pelvis pain is more apt to result than when it is higher up in the pelvis. As a rule the see enty of the pain is in inverse proportion to the diseased condition of the kidney. Undoubtedly some patients are especially susceptible to pain shock and reaction.

Mucharinskij M A Subcutaneous Injuries of the kidney Experimental Investigations (Ue her die subcutanen Nierenverletzungen experi mentelle Untersuchungen) Verhandt d. 16 ru s Chir Kong Moscow 1925 p 69

In experiments on rabbits the author produced a subcutaneous injury of one kidney by crushing the

organ with his fingers. After the injury the animals were kept under observation for about seven months. The hematuria, the quantity of urine, and the hematuma in the lumbar region were watched from day to day, roentgenograms were made, and both the infact and the injured kidney were finally examined microscopically.

In the injured organ there were degenerative changes which in some cases had progressed to complete atrophy of the organ and the deposit of calcium. Investigators (Maas, Tuffier) who are rather optimistic regarding the fate of traumatized kidneys and advise conservative treatment, do not realize

the significance of these changes

In 50 per cent of the animals the author was able to demonstrate also changes in the uninjured kid ney, beginning the third week. First there was a hyperamia, then a thickening of the membrana propria of the tubules in the prylles, then involvement of the tubules of the medulla and the cortex, and finally interstitial proliferation of connective tissue with compression of the tubules. The author draws the following conclusions

Subcutaneous injuries of the kidney cause a slow degenerative process which may lead to complete atrophy and calcincation of the organ. As a result, adhesions may form to near by structures—the in testines spleen, omentum, etc—and these organs may become involved by the pathological process. In many cases stricture of the ureter and hydro

nephrosis may develop

In the uninjured kidney there occurs a slowly developing interstituted hange. The extent of the injury cannot be judged with cert unity from the severity of the hematuria, the retroperitoneal hematoma the pain or the quantity of urner Only early exposure of the kidney can give definite information. Conservative measures seem advisable only in relatively slight injuries. In more serious in juries the extripation of the injured kidney is to be considered as the other kidney may be seriously in juried by its presence.

I eComte R M Spontaneous Rupture of Hydro nephrosis J Urol 1926 vv. 517

The author reports the case of a man 25 years of age who entered the bospital with a hisbory of acute renal colic on the right side and profuse hæmaturi. followed by the formation of a tumor in the region of the right kidney. Exploration disclosed free blood and clots around the right kidney, a long tear in its anterior surface, and matked hydronephrosis. The author believes that a vessel broke into the hydronephrotic size, and that the sac was eventually rup tured by the pressure of the clots which could not be evacuated. H L Syndom M D

Nephrotomies III Nephrotomy Without Su tures in Dogs with Single Kidneys J Leol 1026 X1 505

The technique in the experimental work reported in this article consisted in incising the kidney in its midline along its longitudinal axis down to the pelvis quickly sponging the bleeding surfaces and then approximating the cut surfaces and holding them together by light pressure with the fingers until all bleeding ceased. After the bleeding had stopped the kidney was observed for from fifteen to twenty minutes Following their recovery from the opera tion, the animals were killed after varying periods of time for gross and microscopic study of the kidneys

Of fifteen dogs thurteen were operated upon twice one was subjected to three operations and one was subjected to four All of them recovered from all operations In dogs with two kidneys the bleeding time varied between four and eight and a half min utes while in those with single Lidneys it varied from five to fifteen minutes and averaged about eight

minutes

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Following the nephrotomy on the dogs with a single kidney macroscopic blood was observed in the unne for from two to five days There were no post operative complication such as hamorrhage uramia infection fistulæ or infarction. In two dogs calculi were found in the pelvis after the operation In dogs that were sacrificed within forty days after the nephrotomy on the single kidney no definite change in the size of the organ was noted while in those sacrificed after forty days the kidney was somewhat smaller The destruction of kidney tissue was minimal The authors conclude that the function of these kidneys was reduced to a less degree than HI SANFORD MD if sutures had been used

GENITAL ORGANS

Belfield W T and Rolnick H C Roentgenog raphy and Therapy with Iodized Oils J Am M 155 1026 lyxxvi 1831

The authors state that the usefulness of liptodol and jodipin is restricted because these preparations are non absorbable and may cause irritation and cicatrix formation. They found therapeutic efficiency with harmlessness in iodol 10 gm in 40 c cm of cod liver oil (18 per cent of sodine by weight) and in thymol iodide 10 gm in 30 c cm of cod liver oil (12 per cent of iodine by weight) The use of these fluids is suggested for the examination of the sem inal vesicles Either of them will clear the vesicles of gonococci and other pyogenic cocci

In discus ing industrial herma the authors call attention to Bogros space which is formed by the loose connective to sue at the internal inguinal ring where the sheaths of the scrotal and intrapelvic vas meet and where infections cause swellings that simulate hernia. Such swellings may be cured by treatment of the infected vesicles

BENJAMIN F ROLLER M D

MISCELLANEOUS

Mckay II W The Application of Modern Urolog ical Diagnostic Methods in Lediatrics Case Reports South M J 1926 xiv 460

Mckay calls attention to the fact that children are subject to the same genito urinary conditions as adults and should have the same careful prological examinations Such examinations are indicated in cases of pyuria enuresis over distention of the bladder abdominal tumor and hamaturia Small instruments are now made for the cystoscopic examination of children but in boys a meatotomy may be necessary In cases of pyuria cystography is important. It can be done without anæsthesia Litholapaxy has frequently been performed success fully in children. In the treatment of persistent prelitis, pelvic lavage should have a definite place

beveral interesting cases are reported. In the case of a girl 8 years of age who had had dribbling of urine since birth examination revealed an anomalous ureter extending from the bladder to the urethral meatus near Skene's duct. The conditions in the other cases reported were dilatation kinking and stone of the ureter, tumors, malignancy and colon bacillus pyehtis BENJAMIN F ROLLER M D

Briggs W T and Maxwell E S Leucoplakia of the Urinary Tract with Reports of One Vesical and Two Renal Cases J Urol 10 6 xvi 1

Leucoplakia is a rare condition but is probably not as rare as is suggested by the comparatively small number of cases reported to date. If the urinary tract is considered as a whole it occurs oftener in men than in women but in the kidney its incidence is about the same in both sexes. The renal pelvis is probably affected oftener than the bladder since there is little difference in the number of renal and bladder cases reported in spite of the fact that vesical leucoplakia can be diagnosed by cystoscopy alone whereas in renal leucoplakia the diagnosis can be made only at operation or autopsy The condition may occur at any age but the average age at the time of diagnosis in the eighty cases re viewed by the authors was 4r years The renal pel vi was involved earlier than the bladder

No constant bacteriological findings have been reported and in four of the cases reviewed cultures of the urine were reported negative

The cause is unknown Irritation from infection or stone or both is often present. However in several of the cases reported no bacteria were dis covered and in many there were no stones. Des quamated cornified epithelium may act as a nucleus for stone especially if infection is present

There are no pathognomonic symptoms but the passage of pieces of membrane should always suggest the condition

In the treatment of leucoplakia of the bladder reliance must be placed on resection electrodesic cation or radium irradiation as the condition does not respond to irrigations and instillations

The authors report the following three cases

Case I, vesical leucoplakia. The patient was a woman 35 years of age who first consulted the authors in 1918 because of intermittent pain in the left rend area which had been present since the birth of a child six months previously. Pelvio nephrotomy was followed by rehef for about eight months, but at the end of that time the pun recurred and was more severe than before. The patient was then found to have a pyonephrosis on the left side. In a period of fifteen minutes there was no output of dye on the left side and 1 40 per cent output on the rieth side.

In November, 1020, the left kidney was removed The patient then had a vesical infection which treat ment failed to relieve, but there were no symptoms of cystitis Cystoscopic examination in August 10 I, revealed a few leucoplakic spots on the tri gone A specimen of urine from the right kidney showed no pus or bacteria In March, 1925, 2 mild cystitis developed, and in July, 1925, there was hæmaturia Cystoscopic examination in July showed two leucoplakic spots in the trigone and a very red sessile tumor mass suggesting malignancy Radium treatment was given Four months later the tu mor mass was still present but was less prominent One of the leucoplakic spots had disappeared and near the other there was some shreddy material suggesting leucoplakic material being thrown off

CASF 2, renal leucoplakin. This was the case of a woman 37 years old who was treated seven years ago for cystutis but had had no bladder symptoms since then. She entered the hospital again in June 1922, with renal colic on the left side. The patient was well developed and physical examination revealed nothing abnormal except a rather dark skin. The urnes showed a trace of albumin, numerous pus cells, an occasional red cell and many bacteria but no tubercle barilli.

Roentgenograms of the urmary tract were neg ative On cystoscopic examination the bladder mucosa was found to be inflamed The urne from the right kidney showed albumin, a few pus cells and a phthalein output of 25 per cent in the first twenty five minutes. The specimen from the left

kidney showed albumin, numerous pus cells a dye output of 12½ per cent in twenty five minutes and, on culture 1 moderate growth of streptococcus humolyticus Pylograms revealed infilmmatory dilatation on the right side und early hydronephrosis on the left side. Up to the time of her death ten months later the patient was treated with pelvic lavages and urinary antiseptics. At autops, the left kidney was found larger than normal. The pelvin, which was distended and fluctuant was almost entirely lined by a pearly white glistening membrane.

CASE 3 renal leucoplakia The patient was a prira iv whose youngest child was born five years ago Her present illness began four weeks ago with pain in the right lower quadrant of the abdomen I or three weeks, sweating had occurred every two hours day and night, and there had been moderate dysuria and tenesmus with considerable puria but no hæmaturia. Investigation revealed that the patient had been having similar attacks of pain for the past thirteen years. The attacks were always accompanied by nauser and vomiting and came on suddenly. Seven years ago the removal of the right kidney, had been advised.

On physical examination the patient was found to be undernounshed and to have pyorthoza. The right kidney was enlarged and there was tenderness in the region of that organ. The right ureter was felt as a thickened tender cord. The time which was acid turbid and foul smelling, showed a moderate amount of albumin, a moderate number of red cells, and it large number of pus cells. Cystoscopy revicaled inflammation of the bladder mucosa and thick pus coming from the right ureter. A diagnosis of pyonephrosis was made, and the right kidney removed.

Section of the kidney showed the calices draining numerous abscesses which had destroyed most of the cortical tissue. The lining of the pelvis was a pearly white winkled membrane which covered the walls of some of the distended calices and lined the urcter for a distance of about 1 cm. The pathological diagnosis was pyonephrosis and leucoplakia of the kidney pelvis.

Canded D. Holmes M. D.

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Tavernier A Form of Bony Lesion Intermediate
Between Myeloplaxomata and Bony Cysts (Une
forme de lésion osseuse intermédiaire entre les
tumeurs à myéloplaxes et les kystes des os) Bull et
mém Soc nat de chir 1026 in 17

Tayermer discusses a bone condition regarding which there is considerable argument namely the hemorrhagic osteomichtis of Barrie. He describes the microscopic findings in this condition and reports three cases he operated upon

The application of the term hamorthagic osteo myelitis to this condition he believes is incorrect Preferable as the term bony cysts with hamorthage contents suggested by halay ama The cysts are usually beingn. Taverner argues against amputa ton believing the treatment of choice to be bone grafting and closure of the cavity without drainage and calls attention to the danger of infection when fat muscle or osteoperiosteal grafts are used to plug the cavities.

Sorrel E Localized Tuberculous Arthritis of the Wrist in Children (Des arthrites tuberculeuses localisées du poigne chez l'enfant) Bull et mêm Soe nat de chir 1926 lu 86

Recently I Heureux described a carpus with only one row of bones in an adult. From the roentgen picture and the fact that the wrist was freely moy able he concluded that the cause could not have been tuberculosis in childhood. He therefore attributed the condition to traumatism.

Sorrel reports the case of a child 91 years of age whom he recently treated for tuberculoss of the wrist. The wrist suppurated and a fistula developed but following recovery the wrist was freely movable and the roentgen picture was very similar to that in the case seen by I Heureux. In the roentgenopram the second row of carpal bones seems to be fused with the bases of the metacarpals

It has often been said that in tuberculosis of the wrist the mobility of the point can be preserved only when the infection is mild. Sorrel maintains that the preservation of motion depends not upon the mild ness of the infection but its localization. If the radiocarpal joint is movibed ank-losis occurs but if the radiocarpal joint is not involved preservation of motion is possible however severe the lesson. In proof of this contention Sorrel includes in his article contentions and photographs of six other cases of severe tuberculosis with suppuration and fistula formation involving only the carpometicarpal or the mediocarpal joints in all of which there was ultimately free movement of the ionit.

These localized forms of tuberculous of the nast are frequent in children because until they are completely ossified the small bones of the carpus have a cartilaginous sheath which separates them from each other and pre-ents the extension of a tuberculous process. After complete ossification these localized forms no longer occur. This fact is not sufficiently emphasized in the literature and as a result man surgeons advise resection in severe tuberculosis of the wrist in children when it is not necessary.

AUDERS O MORRAN VID

Jorge J M Congenital Contracture of the Palm (Retraction palmaire congenitale) Rev d orthop

Jorge describes a congenital contracture of the hand in a 3 year-old girl whose mother had a similar contracture which had been present since her birth members of the mother s family. As the Wasser mann reaction was positive in both the mother and the daughter the author concludes that the cause of the contracture was connective tissue hyperplasia due to syphila.

The deformity in the child's hands was first noticed by the parents when the child was a month old but the author believes it must have been pres ent at birth The palm is more concave than normal and the first metacarpal bone projects forward and inward thus exaggerating the thenar eminence. The fingers are in permanent partial flexion but as the metacarpophalangeal joint is extended the curva ture is caused by the flexures of the interphalangeal joints. The thumb is semiflexed. All movements are preserved but with the exception of the thumb which can be extended to a right angle the fingers cannot be straightened out completely. When the fingers are passively stretched it is possible to feel the truction which the skin and the palmar fascia evert on the base of the fingers In the anteroposte rior roentgenogram irregularities in the centers of ossification of the heads of the metacarpals are seen In the lateral view the heads of the proximal phalanges show some volar bowing Slight volar bowing is seen also in the middle phalanx

The mother's deformity is like the child's though more advanced. When the mother was 10 years old an operation was advised but was not permitted by her parents. The right hand presents a varis de formity forming an angle of 130 degrees with the forearm. What fleuon is normal but extension is impossible beyond 130 degrees. Extension Extension to the property of the

The skin folds are still preserved. The thumb is rotated inward and flexed to 140 degrees. Neither extension nor abduction of the thumb is complete. When they are attempted a cutaneo aponeurotic bridges is formed, extending from the base of the digit to the upper and medial part of the palm and hamper ang movement. In the fingers the metacarpophalan geal joints are extended, while the interphalangeal joints are permanently flexed to about 100 degrees. When the fingers are extended there is a palmar bridge which extends from the proximal philanx to the base of the terminal phalanx.

The left hand is about the same as the right except that it is in a slight valgus position. The anteroposterior drimeter of the fingers is increased by the cutineo aponeurotic band. In the Nray plates the heads of the proximal phalanges are seen to be curved forward to form an angle of from 100 to 130 degrees with the body of the bone. On the posterior aspect of the joint there is a small out growth which interferes with extension. The middle phalanx is also curved forward but to a less degree. The terminal phalanx shows a very slightly elon.

gated S curve

This deformity is easily distinguished from Volkmann southcature. It resembles in its pathology Dupuy tren's contracture but the two conditions are not the same. In Dupuy tren's contracture the meta carpophalangeal joint is flexed and the fingers may pierce into the palm, the condition is usually unilateral, begins in the ring or little finger, and may affect the middle and index fingers not at all or only very slightly. Though a hereditary influence is present in Dupuy tren's contracture, in most of the cases

the contraction begins in later years

With regard to the treatment in the cases he
reports, the author states that in his opinion anti
syphilis agents and local measures will correct the
deformity in the child, but in the case of the mother
operative measures would be necessary.

M L MASON M D

Mayer M and Testu C Alternating Scoliosis (Scoliose alternante) Bull et mém Soc med des hôp de Par 1926 vlu 124

The case reported in this article was that of a man 28 years of age who, for eight months, had had continuous spontaneous pain in the lumbar and sacro like region on the left side. The pain radiated to the buttock but not to the leg and was increased by fatigue and standing. Examination revealed a marked scolosis of the lumbar region which was convex to the left and bent the trunk toward the right the direction away from the painful area. The condition was therefore a crossed scoliosis. There was no disturbance of the reflexes, annotrophia, disturbance of sensation, or point at which pressure caused pain. The scoliosis was more marked than that ordinarily found in scientica.

Attempts made by the authors to reverse it were unsuccessful, but the patient was able to reverse it by making an abrupt leap with his hands supported on the back of a chair or with more difficults, without any support. On this movement the scoliosis changed immediately from right to left or from left to right. The movement suggested the release of a spring in the lower lumbar region. Ordinarily and during repose the scoliosis was crossed, but the patient could transform it at will to a homologous scoliosis. The movement was painful but as soon as it was completed the pain stopped. There was no muscle contraction, the movement was purely mechanical.

A roentgenogram taken with a Potter Bucky dia phragm showed flattening of the third and fourth lumbar vertebræ on the right side the two vertebræ forming a wedge which slipped in and out of its mortise. The reversal of the scolosis from one side to the other was produced by the slipping of the wedge in or out. There were no bone proliferations or bony processes. The authors are unable to state whether the flattening of the vertebræ was due to arthritis.

A toentry G Morgan M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Sorrel E The Repair of Bony Cavitles in Children (De la reparation des cavites osseuses apres evide ment chez l'enfant) Bull et mém Soc nat de chir, 19 6 hi 360

Many surgeons employ bone or osteoperosteal prafts to fill bone cavities when the latter are be lieved to be aseptic and can be closed by suture without drainage. In the absence of fistula and secondary infection, soriel merely sutures over the cavity and does nothing else. This treatment has never failed to be followed by bony repair without complications.

Sorrel reports the case of a 17 year-old grl with osterus and sequestration of the lower end of the radius. The sequestrum was removed and the cavity then cleaned and closed without drainage. Primary union resulted and after eighten months the re

placement of the bone was complete

In a case of spina ventosa of the first phalanx of the middle finger in a girl 10% years old the removal of a large central sequestrum was followed by complete repair

The same technique gave a good result also in two cases of osseous tuberculosis in the lower end of the femur After two years the cavity was completely filled

In the cases of adults the author has removed at least 100 bony transplants, some of which included the entire thickness of the bone. They ranged from 10 to 14 cm in length to 13/ to 2 cm in width Most of them were used in the treatment of Potts disease. All were removed with the electric saw. The cavity formed by their removal always filled easily and the bone seemed to take on its original

In the discussion of this report, Bazz said that repair does not always occur in this manner in adults During the war he frequently removed foreign bodies from the upper end of the tibia cleaned out the cavity closed it and obtained primary union. Then probably because the patient walked too soon the upper surface of the tibia became deformed and genu valgum or varum developed the newly formed bone being weak. Bazy believes that if a bone graft were implanted in the cavity in such cases such complica tions would be prevented

Mor curr stated that the same treatment cannot be applied to cavities due to bone cyst and those due to tuberculosis. For the former he uses osteo I ELLOGG SPEED M D

periosteal grafts

FRACTURES AND DISLOCATIONS

Plisson and Rouvillois Total External Luxation of the Elbow (Luxation externe totale du coude) Buil et mem Soc nat de chir 1926 li 1108

Rouvillois reports a case which was called to his attention by Pli son The patient suffered a lateral luxation at the elbow of both bones of the forearm from a fall on the outstretched hand. As several attempts to maintain the reduction by plaster were unsuccessful elastic traction was employed. The end result was most satisfictory

Plisson believes that literal luxation is always or ceded by buckward dislocation. He advocates the more general use of elastic traction in the reduction of dislocations PAUL C. COLONNA M.D.

Courty and Alglave The Treatment of Imperfectly Consolidated Bimalleolar Fractures (Au sujet du traitement des fractures bimalléolaires vicieuse ment consolidees) Bull et mem Soc nat de chir 1026 11 1110

Alglave reports a case of Dunuxtren's fracture treated by Courty in which the original deformity was still present when the dressings were removed after immobilization for thirty days | Three months after the accident an astragalectomy was performed with very satisfactory results. Astragalectomy gave a good result also in two cases of bimalleolar frac ture treated by Alglave In a third case Alglave obtained a satisfactory result from a modeling operation on the ankle joint

In Alglave's opinion it is almost impossible to maintain the reduction of bimalleolar fractures by means of plaster if there has been much displace ment Duval came to the same conclusion from roentgen ray studies made during and after reduc tion Alglave therefore employs open reduction with screwing. He describes two types of osteotomy one above the site of fracture and the other through the fracture He prefers the latter

PART C COLONNA M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Bomasch I The Innervation of the Blood Vessels of the Lower Extremity (Die Innervation der Blutgefaesse der unteren Lytremitret) Chir Sam melh d propaedeut chir Klin ud Inst f Krebs forsch I Moskauer Stattsumm 19 5 p 17

The author attempted to determine (1) the effect of the local tonus upon the caliber of the blood vessels and its dependence upon the higher voluntury and autonomic centers (2) the relationship between the two systems and (3) the conduction path of the central impulses to the periphery

The studies were made on cadavers which had been injected with 3 to 5 per cent nitric or acetic acid and then treated with water By this procedure the nerves were rendered very distinct

On the basis of his experiments and a review of the literature the author concludes that the peripheral vessels possess a tomus of their own which is independent of the central nervous system. He was able to determine a constrictor function only for the anterior roots and the sympathetic lumbar fanglia, but never for the peripheral spinal nerves which send no constrictors to the peripheral vessels. The dilators on the other hand, may be assumed to course in the peripheral nerves. These are identical with the sensory nerves of the vessels and possess reflex functions. The raimi vasorium are sensory nerves and dilators. Afterus and veins are inner wated in an identical minner. Reinberg (2)

Grigoriew A M. The Cure of a Gigantic Triu matic Arteriovenous Aneurism of the Abdom inal Aorta and the Inferior Vena Cava by the Moore Corr do Method (Ueber die Heining innes nessgen traumtischen arteriovenoesen Aneurysma der Aorta abdominals et V cava infer nach der Methode von Moore Corradi) No in chir arch 1925 viii 83

In the case of a 40 year old alcohol addict who attempted sucide by shooting Immself in the ab domen there developed, three weeks after the injury, a gigantic aneurism of the abdominal aorta and inferior vent cavy which at exploratory laparotomy appeared to be imperable. The introduction of a spiral bronze iluminum were into the sac was followed by gradual diminution in the size of the aneurism and improvement in the general condition of the patient.

Later, the patient was re-admitted to the hospital because of loss of strength and a tumor in the expession. At a second laparotom, the aneurysmal sac which was found collapsed was splitopen and the spiral wire, which was surrounded by soft tissue, was withdrawn Complete recovery followed The patient has now been working at his occupation of locksmith for about a year and feels entirely well Alipow (Z)

Chauvin Esmenard and Jaur The Part Played by the Corgulability of the Blood in the De velopment of Postoperative Phiebitis (Recher ches sur le rôle de la coagulabilité sangune dans la production des phiébites postopératoires) Gynée et obst 1936 viii 123

The authors discuss the theory that postoperative phlibitis may be due to an effect upon the coag ulability of the blood produced by the operation or the anesthetic

The congulation time of a series of normal subjects was found to be very uniform ranging from tenand one half to eleven minutes. A study of a series of patients before and after operation showed that the influence of the operation on the congulation of the blood was very slight and bore no relation to the type of operation or the type of anesthesia.

In eight patients developing phlebits, a slight decrease in the coagulation time averaging a minute and a quarter was found, but this variation was no greater than that observed in many patients with a normal postopertive convalescence.

The authors conclude that if the congulation time of the blood is a factor in the development of phle bits it is only a minor one. In the literature, similar opinions have been expressed with regard to puer peral philebits. ALBERT F. DEGROAT M.D.

Tolsthoff D F Changes in the Blood Pressure Under the Influence of Operations (Ceraende rung des Blutdruckes unter dem Einfluss von operativen Imgriffen) | terhandl å 16 russ Chir Kong, Moscow 1925 p 159

The author made about 2 000 determinations of the blood pressure in roo patients. In the majority they were made several times before operation and during a period of from eight to ten days after it In twenty cress they were made also during anæs thesia and operation. The Riva Rocci apparatus and the Korothoff method were used

In 75 per cent of the cases the blood pressure was norceased before operation by the psychic excite ment. The increase was especially marked just be fore the operation. At the beginning of the ares thesa the pressure was still high, but then gradually sank with the depth of the narcosis, even reaching subnormal values.

After operations performed under general ames thesia the pressure was elevated in 75 per cent of the cases and returned to normal gradurily only after from two to ten days. In 21 per cent of the cases no noteworthy changes occurred, and in 4 per cent

there was a marked fall due to the gravity of the operation and the lo s of blood In cases in which local anæsthsia was used the

blood pressure remained high during the operation and showed no great variations during the post operative period KORNMANN (Z)

Brown G E Treatment of Peripheral Vascular Disturbances of the Extremities J Am M 1ss 1026 lxxxvn 370

There are two main types of vascular disturbances affecting the extremities which are classifiable on the basis of their functional or organic origin. The functional or vasomotor disturbances fall in two clinical groups as the vasomotor mechanism is canable of only two responses vasoconstriction and vasodilatation When the vasomotor balance of the limb is preponderantly toward the vasoconstrictor side and the blood flow is diminished the surface temperature is reduced and the limb is frequently pale or evanotic. The degree of coldness and of pallor or cyanosis of the extremity depends upon the amount or degree of vasoconstriction

When vasoconstriction occurs in attacks in the hands or feet with well defined local color changes subjective symptoms and frequently trophic dis turbances the condition is recognized as Ray naud's disease. Milder vaso pastic disturbances are designated as dead finger or white finger

acrocyanosis or acro asphyxia The condition characterized by intermittent attacks of undue vaso dilatation of a peripheral vascular segment with red ness and subjective symptoms of heat is known as erythromelalgia There are probably two types of erythromelalgia a primary or essential form existing in the absence of any demonstrable organic vascular disease and a secondary form appearing in association with arteriosclerosis. In the latter the objective evidence of increased vasodilatation may be lacking but the patient notes intermittent attacks of a burning sensation in the extremities The symptoms suggest paræsthesia more than a disturbance in the blood flow

The organic or obliterative lesions involving the ex remities are mainly of two types thrombo angu tis obliterans or Buerger's disease and endarteritis obliterans or arteriosclerosis with or without super imposed thrombosis. The so called diabetic gan grene has a similar arteriosclerotic basis. Thrombo angutis obliteran is a chronic thrombosing process usually involving the peripheral arteries and veins The early pathological picture shows a soft red clot filling the vascular lumen and containing erythro cytes and tibrin. There are subsequent stages of fibroblastic organization and canalization. Aside from a diffuse cellular infiltration of the arterial coats suggesting an infectiou basis there is no evi dence of any of the changes involving the intima or media that characterize endarteritis obliterans Buerger was the first to point out this essential difference in the two diseases. In arteriosclerosis of the peripheral vessels the lumen is gradually nar

rowed by the proliferation of the intima Degenera tion of the muscle fibers and the deposition of cal cium are the usual sequence of events. The super imposition of a simple thrombus usually precedes the advent of gangrene The cellular nature of the clot so characteristic of that observed in thrombo angutis obliterans is lacking. The process is degen erative and lacks the evidence of an infectious basis which is seen in thrombo angutis obliterans

Medical treatment of Ray naud a disease and allied vasospastic disturbances has not been successful and theoretical considerations would indicate a surgical procedure to produce interference with the vasomotor paths to the extremuties Perivascular stripping is not followed by a demonstrable increase in the blood flow of the extremity but removal of the second third and fourth lumbar sympathetic ganglia and perivascular neurectomy of the common that arteries produces this effect in the lower extremities It is probable that a permanent vas cular dilatation in the feet ensues, with disappear ance of the vasoconstricting action The blood flow is markedly increased as shown by quantitative studies of the loss of heat and the surface tempera ture Trophic ulcers heal rapidly and the signs and symptoms of the disease disappear completely

The treatment of the chronic organic obliterative diseases of the extremities presents another type of problem In these cases medical supervision and therapy are of great value. In thrombo angutis obliterans the relief of pain is frequently the para mount consideration. In many cases the pains can be relieved for variable periods by the intravenous injection of foreign protein or of radium chloride and irradiation of the sacral spine with the roentgen rays When definite gangrene is absent and when relief from pain is attainable these patients can be tided over long periods with some hope of the es tablishment of circulatory compensation servative measures to avoid amoutation are neces sary as the disease is bilateral and double amouta tion means economic disaster for the patient. Early diaknosis is essential Unfortunately this disease is not well recognized by physicians generally Tewer than 20 per cent of the cases reviewed by the author were correctly diagnosed before investi gation at the Clinic In most of them valuable time was lost during the period when protective and simple physical measures might have prevented the serious sequelæ

When these patients show beginning trophic disturbances and suffer the usual distressing pain the operation performed by Adson seems to offer additional chance of preventing the loss of limbs When the pain is controlled amputation may be delived indefinitely With the institution of protective and other measures to increase the circulation in the feet these patients can arquire a moderate degree of use fulness and activity The permanence of the vaso dilating effects of operation cannot be stated at this time Brown is of the opinion that if amputation is eventually necessary after lumbar ganglionectomy

it will be possible to perform it at a lower level on account of the additional vasodilatation

A proper selection of the cases for operation is most essential, and the use of the protein reaction to determine available vasodilatation seems advisable as a pre-operative test. Comparison of the preoperative is in the surface temperature to protein fever with the postoperative values seems to indicate a fairly close parallelism. It would be futile to attempt the radical operative procedure in the abeace of any available dilating vessels. Patients with endarterits obliterians show slight or no vasodilatation, and the age and general condition of these older patients, who frequently have general ized degenerative lesions of the heart or kidney contra indicate an operative procedure of this magnitude.

BLOOD, TRANSFUSION

Odinow, D. E. Changes in the Viscosity of the Blood Under the Influence of Anresthesia and Operation (Ueber Veraenderung der Blutvisco i tate unter dem Einfluss der Anaesthe ie und Opera tion) Verhandl d. 16 russ. Chir. Kong. Moscow. 19.3 p. 7x.8

One thousand examinations made in the cases of events-one patients showed that even preparation for operation caused a more or less marked increase in the visco ity of the blood. Operative trainm and both local and general anæsthesia caused an increase in three fourths of the cases. In one series this effect was noted after from thirty to minely minutes and in another series toward the end of the first div. After from 1st to eight days the viscosity returned to normal. In most of the cases with postoperative complications the viscosity of the blood was markedly increased, even before the clinical symptoms of the complications the cases with postoperative of the objective of the cases.

KORNMANN (Z)

Nisner E J The Effect of Operation upon the Changes in the Congulability of the Blood (Ueber due Einflu, 5 der Operation auf die Veraen derungen der Blutgerinnungsfachigkeit) 1 erbandl 4 16 mis Chr. kong. Moscow 19, 5 p 1,56

The author made 1,200 determinations of the coagulability of the blood of eighty eight patients operated upon In thirty two ca.es the coagulation in the remained within the normal limits both before and after operation. In such cases the postoperative period was normal complications occurring in only 9 per cent

In twenty three cases the coagulability was nor mal before the operation but was decreased after the operation and in eight (34 per cent) of these cases, the postoperative period was not smooth

Still greater was the incidence of postoperative complications—34 per cent—in thirty three cases in which the coagulability was decreased before the operation and remained decreased afterward In this group of cases there were two deaths

In 67 per cent of the cases the operation (pre operative preparation, operative trauma, and nar costs) decreased the coagulability On the other hand decreased coagulability indicated early the development of complications such as pneumonia and hæmatoma. After the appearance of such complications, the coagulability may again return to normal

In 60 per cent of the cases an increase in the vis cosity of the blood was found in association with a decrease in the coagulability and vice versa. In 64 per cent a simultaneous decrease in the number of blood platelets was found with a decrease in the coagulability. In 75 per cent a direct relationship could be established between the calcium content of the blood and its coagulability. Korsanyo (2)

Salayan P G The Effect of Operation and Nar costs on the Calcium Content of the Blood (Der Einfluss von Operation und Narko e auf den Cal ciumgehalt des Blutes) Verkandl d 16 russ Chir Keng Vic cow 1923 p 160

The author made determinations of the blood calcium on filty patients at various times before and after operation and on fourteen dogs. The Klarck method was used. It was found that narcoss and the loss of blood during operation had no effect.

The calcium content of the blood was lowered in severe ailments in which the general condition was poor such as echinococcosis cholecystits, and car cinoma of the breat. After the transplantation of the size is showed a definite increase, and after the transplantation of ovary or thymus a decrease. In 75, per cent of the cases the changes in the blood calcium were parallel with the changes in the coagulability of the blood.

Melikon P G The Change in the Cattalase Indee of the Blood Under the Influence of Surgical Operations (Die Veraenderung des Katalasender des Blutes unter dem Linflues chrungascher Opera tionen) 1 erhandl d 16 russ Chir Kong Mos con 19, p 159

The author determined the catalase index of the blood in eight; three patients, fift; six of whom were operated upon under jeneral ansesthes); and twent seven of whom were operated upon under local anses thesia. The determinations were mide by the Bach method with which according to Bach, the normal average index for man is between 14 and 18

On their entrance to the hospital the patients showed an average index of 16.8 After general anisthesia and operation the index in 90 per cent of the cases showed a fall of from 10 to 22 per cent After operations under local anisthesia, no change was noted

During the postoperative period cases with a smooth course showed a fall in the index of 16 per cent on the second or third day, but after the sixth to the tenth day the pre-operative value was again reached. In cases with suppurations and hemorrhages during the postoperative period the index

showed a decrease of from 25 to 40 per cent Especially low figures were found in the cases of icteric nationts and those who were cachectic from cancer

The transplantation of sex glands was followed by an increase in the index of about 15 per cent on the tenth day after the transplantation in 80 per cent of the cases but transplantation of the thyroid and thyroid operations were followed by a fall of from 25 to 28 per cent KORNIANA (Z)

Rappoport P L The Changes in the Number of leucocytes and the Leucocyte Formula During the Postoperative Period (Die Veraenderungen der Leukocytose und der I eukocytenformel in der postoperativen I eriode) Verhandl d 16 russ Chir Kong Mc con 1925 p 150

The author studied the leucovites by the Schilling method in the cases of mnet; patients Lvery patient was examined six times—immediately before and after operation and on the second third fourth and sixth days after operation. The cases included twenty four of herma and chromic appendictus ten of cholecy stitus fourteen of malignant tumors and eight of purulent infection. Local anasthesia was used in twenty three cases, spinal anasthesia in sixty two

In all cases there were changes in the absolute and relative numbers of the leucocytes and the more extensive the operation and the longer the duration of the anasthesia the more definite and persistent these changes. After all operations there was a leucocytosis with an increase in the number of neutro philes a decrease in the number of lymphocytes and disappearance of the eosinophiles. The leucocytosis was especially marked after general anæs thesia the number of leucocytes reaching as high as 35 000 per cubic millimeter in some cases although in the majority it was between 18 000 and 10 000 After the use of ether the leucocytosis was somewhat higher but less persistent than after the use of chloro form During the first few days after the operation the count gradually decreased and by the tenth day had reached normal

After local anasthesia the leucocytosis was high for only two days and on the third day rapidly decreased. After lumbar anasthesia induced with a to 5 per cent solution of novocain a leucopenna was noted. The author believes that novocain in troduced into the spine has a depressing effect upon the centers regulating the formation of leucocytes.

In the basophile leucocy tes no changes were noted The costophile leucocy, tes disappeared in all cases immediately after the operation even in cases with a definite cosmophilia. As a rule they were not dem onstrated again before the sixth day after operation Their re appearance in the normal proportions (2 per cent) is to be regarded as a good sign of con valescence

The most marked changes after operation were shown by the neutrophile leucocytes especially the younger forms. The appearance of myelocytes and an increase in the number of rod shaped neutrophile.

leucocytes indicate the presence of complications A progressive increase in the number of rod shaped neutrophile leucocytes is particularly omnious. The number of ly mphocytes was low as compared with the other cells but the actual number showed a slight decrease only on the second and third day after the operation.

Particularly poor blood pictures were found after exploratory, laparotomies for malignant tumors. In these cases the resistance of the ery throcy tes was also decreased. In the majority of ca es the leucocy tosis was parallel with the increase in the viscosity of the

blood and in inverse relation to the number of blood platelets Kornkian (Z)

Ssokoloff W. I. and Gladyrewsky N. L. The Changes in the Number of the Erythrocyces and Blood Platelers During the Postoperative Period (Die Veraenderungen in der Zahl der Fryth rocyten und Blutplattlehen in der postoperativen Periode). Verhandt d. 16 russ Chir Kong. Mos. COM 1025 p. 155.

The authors determinations of the number of erythrocytes and blood platelets during the post operative period were made on eighty eight patients and four anasthetized dors. No chance in the

number of crythrocytes was found. The blood platelets were counted by the method of Fonio according to which the normal number is 234 000 per cubic milimeter. After operation under spinal anasthesia in two cases and under local

234 000 per cubic millimeter. After operation under spinal amsthesia in two cases and under local anisthesia in twenty six no typical changes were demonstrable. In forty three (72 per cent) of sixty cases the number was somewhat diminished during the first few hours after the anisathesia very mark edly diminished on the second and third days somewhat increased on the sixth day and again normal on the tenth day. In seventeen cases (28 per cent) the blood platelet count was not made

The fluctuations in the number of the blood plate lets in the majority of the cases examined are attributed by the authors to the anæsthesia

A study was made also of the relationship between the number of blood platelets and the coagulation time of the blood. It was found that a normal num ber of blood platelets corresponded to normal coagulation and a diminished number of platelets to decreased coagulation. KORMIAN (Z)

Gabriel W. B. A Simplified Technique for Blood Transfusion by the Kimpton Brown Method Lancet 1926 ccx 1255

Whole blood transfusion by the Kimpton Brown method is still the procedure of choice when it is possible to bring the donor and patient together A disadvantage in the use of the Kimpton tube however is the necessity of cutting down on the donor's year.

In the author's technique a kimpton tube is prepared and sterilized in the usual manner filled with a small amount of a 38 per cent solution of sodium citrate and connected with a gauge 15

needle. Five hundred cubic centimeters of blood are then withdrawn through the needle from the donor's forearm. As the blood enters the tube it pushes the sodium citrate up as 1 layer, this making it possible to give the patient the entire amount of blood withdrawn without the risk of blowing air into the ven.

After the withdrawal of the blood from the donor the needle is removed from the ven and from the tube and a swab of cotton soaked in 3 8 per cent sodium citrate solution is held over the nozzle of the tube until it is passed into the vent of the recipient. The introduction of its tip into the ven is facilitated by bolding the walls of the ven apart with fine forces.

It is necessity to cut down on the recipient's vein in all cases. When the vein is very small it may be difficult to introduce the tip of the tube. In such cases the author has incised the vein and tied a small needle in place just before taking the tube from the donor.

Korganowa Mueller F S The Cruses of Reactions Following Blood Transfusion (Zur Frage ueber die Ursachen der Reaktion nach Bluttransfusion) Russkaja klin 1925 iv 46

The causes of reactions after blood transfusion may be divided into two groups the technical and the biological Those of the first group include too

rapid transfusion, partial destruction of the erythro cytes in the pissage of the blood through the needle especially in transfusion with pressure (syringes, apparatus for sail solution infusion), the formation of small unrecognizable clots (in direct transfusion), and, according to the opinion of many authorities, the toxic action of sodium citrate

Of greater importance are the biological causes. Chef among these is faulty blood grouping. It is necessary to determine the agglutinating properties not only of the crythrocytes but also of the serum. The author believes that the aglutinating properties of the blood are constant. In investigations made on 15- patients before and after anesthesia) and before and after electrical and \(^1\) ray treatment he was unable to find any change in the reactions. In several cases parallel tests of the serum corrected errors in the determination of the agglutination group and revealed their cause

In conclusion the author states that even with the determination of the blood group and perfection of the technique, the problem of blood transfusion has not been solved as there are apparently other biochemical properties of the blood which are of great importance. As blood transfusion may be associated with danger, it should be performed only when it is definitely indicated.

Block (2)

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Souttar II S Ormond A W Kilner T P Pooley G H and Others Discussion on Plas tic Operations on the Face in the Region of the Eve Proc Roy Soc Med Lond 1026 viv Sect Oohth 14

The problem of the removal of hairs moles from the region of the eye is distinct from the relatively simple problem of removing them from other parts of the body

Sourran uses arm flaps in this operation and rec ommends them especially for children. They must be fairly long to allow room for proper care and

Ormond repairs loss or murv of the evelids with (1) autoplastic or homoplastic flaps augmented by bone or cartilage or (2) grafts either pinch or Thier ch applied directly or over molds island flaps advocated by Esser and Arnheim have a good cosmetic effect as there is no turned skin pedicle to be een subsequently and the tension is equal everywhere. These grafts have a free sur face all around and are nourished by a subcutaneous pedicle that contains an adequate blood supply

The shifting of healthy neighboring kin into the defect is not always succes ful in this region because

of ubsequent contraction

Contracted ockets present a problem because the lost lining is difficult to restore and mucous membrane grafts and epithelial inlays undergo marked contraction when they are placed on soft tissue with no firm attachment to prevent their shrinkage If the socket could be filled with carti lage parafin or filigree ball and a convex stent with epithelium over it applied to this firm surface a bet ter working basis would be established

The technique of Thiersch grafting is important A large I in flat bladed knife is used. The field is Lept moist with saline solution. The graft is removed from the knite blade with needles and a stream of saline solution and minimal handling. It is made is large and as thin as possible. All granu lations are cut from the wound with scissors and perfect hemostasis is then obtained by pressure. The wound is dressed dry and the dre sing left on for a week and then soaked off

KILNER reports that in cicatricial ectropion from hatever cause he obtains uniformly good results from the use of the epithelial outlay An incision made from canthus to canthus just outside the ciliary margin the sulcus is deepened and all scar band are opened until the lid can be placed in an overcorrected position. A mold is made of the resultant raw surface a Thiersch graft is draped over

the mold and the mold and graft are applied to the raw surface and fastened with sutures running through the edges of the wound and the graft and tied over the mold Failure of this method is usually due to its use when the lining of the lid is mis ing and a more extensive lid replacing operation is nec essary or failure to excise all of the scar tissue

Nev eyebrows are supplied either by pedicle or free Wolfe grafts from the scalp The functions of the eyebrows are to protect the eye from the sun from sweat (in their absence sweat runs into the

eye) and from the wind

Symblepharon was successfully treated in two cases with Thiersch grafts over molds placed in the sulci that remained after the lids were carefully dissected away from the globes

POOLEY states that when in cases of defects caused by surgical procedures the areas are fairly free from sepsis plastic repair may be done imme diately Fairly clean accidental wounds can be re paired as soon as they are clean and quiet Burned areas should not be repaired until contraction of the scar has become nearly stationary. Areas resulting from sepsis and sloughing should not be repaired sooner than twelve months after activity has ceased

as there is danger that the sepsis may light up

All scar bands should be freed around the lids and the edges retracted as far as possible before the new flaps are put in position. A large flap with a wide pedicle is the most satisfactory and should be crowded into the defect rather than stretched across it This applies to the full thickness of the flap it being important not to leave any hollows in the subcutaneous area under the suture line Pooley usually sews the two hds together to keep them motionless during healing. The flap is left in place about six months. It is then detached and its base returned to its original bed. All bleeding is stopped but some subsequent bleeding under a pedicle flap will not hurt it Hot fomentations are used if the vitality of the flip looks doubtful during the first few days A mixture of methyl violet 1/2 per cent brilliant green 1/2 per cent alcohol 35 per cent and water 64 per cent is used for preparation because

other chemicals cause too much irritation of the conjunctiva Arm flans are unsatisfactory because their use causes discomfort. The use of free skin grafts are also unsatisfactors because of the subsequent con

traction

Pooley has found the use of grafts in symble pharon unsatisfactory but obtained a successful result by stitching a sheet of rubber into the sulcus obtained by freeing the lid from the globe and allowing it to remain in place for months until epi thehum had grown over the raw surfaces

Shaw uses forehead flaps for repair after the excision of hemangiomata, but advi es against the removal of such growths from the lids by exci ion. In one case adequate blanching of the lower lid was obtained by searing it with the electrocautery on two occasions.

OLUER believes that the poor success of inlays in the orbit is the fault of the operator. He removes everything down to the periosteum, cuts one large graft, and fits the graft very snugh into the orbit over a mold.

EDUINDS has found rodent ulcer to be responsible for the greatest number of restorative problems about the eye. The removal of the growth i usually easy. Repair is best obtained with sliding flaps and can usually be made at the time of the removal of the growth. If the globe is involved and excision is done, the orbit can be clo ed with sound skin. When this is done the result is not very noticeable if spectacles are worn. When the lids are to be restored with forehead flaps, preliminary cartilage grafts may be put in the flaps.

J. B. Brown, M. D.

Ballance Sir C Some Experiments on the Conduct and Fate of a Ligature Made from the Parietal Peritoneum of the Ox When Implanted in Living Tissue Lancet 19 6 ccu 10

In the author's opinion, the best material for ligatures is the parietal peritoneum of the ox. This is strong, inelastic smooth, and pliable, slowly absorbed, and easily rendered ascotic

When a ligature is absorbed, it is replaced by new living tissue. The arrangement of the fibers of the new tissue is influenced by the structure of the ligature and the stages in which it yielded to solution. The new tissue is formed along the lines of the old tissue. The old tissue is absorbed by the new, and as it is absorbed, new tissue is put down in its place.

When an artery is ligated the attack of the invading cells on the ligature is confined for some time to the surface of the ligature which is farthest from the arterial wall. This is due to the tension of the structures within the loop of the ligature.

The anatomical features of plain and chromicized ligatures observed under the microscope are identical Chromicized ligatures and those made from broad strips of membrane resist absorption for a much longer period than plain ligatures and those made from narrow strings

The multitude of cells which collect around the ligature is a striking and early manifestation of the reaction of the tissues to the presence of a foreign body as the collection.

body in their midst

When a peritoneal ligature is made from broad strips of tissue, absorption takes place mainly from the surface as it does in the case of kangaroo tendon \(\lambda\) chromicized ligature of or peritoneum made from broad strips of membrane appears to be perfect for the ligation of a large artery in continuity or for bermotomies As this ligature resists absorption for a somewhat longer period than catgut, it may be employed to advantage also in many other operations. Ox peritoneum ligature is superior to catgut for all purposes. However, unless it is made in large quantities it would probably be more expensive than catgut. Morets Harry MD.

ANÆSTHESIA

Lundy J S Balanced Arresthesia Minneso a Med 19 6 1x 399

After di cussing the suitability of the various forms of anysthesia. Lundy comes to the conclusion that no one of them meets all the requirements of the surgeon internist anaesthet; I and patient but that a combination of the various agents might be used each in an amount small enough to prevent its having an unsatisfactory effect. The proper combination of these agents produces a balanced anaesthesia. Thus after the administration of a moderate amount of preliminary hypnotic, local anaesthetic and introus oxide or ethylene sufficient ether should be given to produce the desired result.

If carbon dovide is used, it is probable that much larger preliminary doses of morphine can be fixen with safety because respiration can be readily controlled and the rate of absorption of ether during the operation and of its elimination after operation can be hastened Carbon dioxide is especially useful when introop order or eith lene is being administered to children because their respirations are normally unreliable.

Local anesthesia is recommended for the extraction of teeth operations on the eye no e throat, and brain and for herma. It can be used with particular advantage for larvingectomy. For per nead operations especially hemorrhoidectomy and for operations on or through the adult urinary bladder certain forms of local anysthesia can be employed advantageously.

The average goster operation is facilitated by the induction of light general anesthesia in addition to local anasthesia. Radical amputation of the breast is best performed under general anasthesia. The best combination of anasthetics for thoracoplasty and various types of intra abdominal operations is detailed.

The advantages and disadvantages of local infiltration and of regional amethesia are discussed Regional amethesia has certain disadvantages its induction is frequently slow, reactions sometimes occur, and hittle himostasis is produced. It can often be advantageously combined with local infiltration

The dosage of no occain and epinephrin depends upon the weight age blood pressure and pulse rate since these have a profound effect on the patient's tolerance. The author gives a general formula illustrated by examples in which these special factors.

any The degree of untoward reaction to no occain varies directly with the rate of absorption of the drug hence more of the drug can be given in dilute solution than in a concentrated solution. The author employs about 5 mm of a 1 r 000 solution of adre

nalin chloride to each 100 c cm of novocain solution unless he has reason to believe that its use is contraindicated by the patient's general condition or by an untoward reaction to the first part of the injection

Lundy J S Pulmonary Complications Following Ether and Ethylene Ether Anasthesia Wed J & Rec 1926 Ctw 87

In order to compare ethylene ether and ether in their effect on the incidence of postoperative pul monary complications and the mortality Lundy re ports the results of two parallel series of 600 case

each

For every operation performed under ethylene
ether anaxitiesia a corresponding operation was
performed under ether anaxitiesia the conditions
with regard to site dute and meteorological factors being identical. There were 560 cases of
duodenal ulcer half in each series sixti six cases
of gastric ulcer and 574 cases of cholectystitis 344.

with stones and 230 without
The most favorable results from the viewpoint of
anæsthe is postoperative pulmonary complications
and mortality were secured in the cases of gastric
ulcer when ethylene ether was given in the cases
of cholecystits when ether was given

The best results from the viewpoint of anæsthesia and the incidence of postoperative pneumonia in cases of duodenal ulcer followed the pre operative

administration of morphine and atropine and the

Anesthesia was satisfactory in 85 per cent of the cases on the victage. The relative percentages in the ethylene ether group and the ether group varied in the different operations. It must be borne in mind that the choice of anasthetic depended to a varying degree on the condition of the patient and the personal preferences of the surgeon. Other fix the core besides the anresthetic some of them doubtless unknown affected the incidence of pulmonary complications and the mortality.

Since the percentage of ether required in the differ ent operations varied so widely it is impossible to draw general conclusions regarding the comparative value of the two types of anaesthetic or the effect of the pre-operative administration of hypnotics What is proved in one type of operation is disproved in another The absence of bronchopneumonia follow ing operations in the large series of cases of duodenal ulcer and the smaller series of cases of gastric ulcer under ethylene ether without preliminary medica tion is no criterion for the e tablishment of such a routine in surgery of the upper abdomen The figures for operations on gastric ulcer under ethylene ether anysthesia show that bronchopneumonia did not follow in any case regardless of the institution and type of pre-operative medication. Preferences must be limited by the type of operation and no generali zations can be made

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Hueck H Irradiation Treatment of Sarcoma (Zur Strahlenbehandlung der Sarkome) 1rch f klin Chir 1926, CXXXIX 607

The histological character of connective tissue tumors is not a definite criterion of the reaction of such tumors to irradiation Sarcoma of the young cell type is usually influenced relatively favorably, whereas tumors of a more highly differentiated cell

structure are more resistant

In the period from 1920 to 1925, more than 100 cases of sarcoma were treated at the Rostock Clinic The author's study is based on fifty five of these In ten, only Y ray treatment was given, in twenty four the \ ray treatment was preceded by an in complete operation consisting usually of the excision of a specimen for diagnosis, and in fifteen it was preceded by a radical operation. There were six patients who came for the treatment of a metastasis following a radical operation

The treatment consisted as a rule of three or four exposures in each of which from 80 to 100 per cent of the skin erythema dose was applied directly to the tumor In the cases of easily reacting tumors smaller doses were given at more frequent intervals

There were no burns

Thirty three of the fifty five patients have already died and three have recurrences Eight of the re maining nineteen have no recurrence as yet but as they have been under observation for only a vear and a half at the longest they cannot be considered in judging the value of the treatment. In cleven cases (20 per cent) a good result has been obtained

for a period ranging from two to five years The time of the reaction to the irradiation was extremely variable. Lymphosarcoma reacted most quickly, but the ultimate results in these cases were not at all favorable As a good result was apparent in myelogenous sarcoma of the epulis type the author is of the opinion that irradiation treatment is justifiable in these cases to avoid a mutilating operation With regard to the other types the author says that the surgeons of the Rostock Chaic, recognizing the uncertainty of irradiation prefer to deal with operable sarcomata by excision

DUSCHI (Z)

Mattick W L Some Practical Considerations in the Application of Deep Roentgen Therapy to the Treatment of Malignant Disease Radiology 19 6 VII 1

This is a description of the methods found to be of practical value in the treatment of malignant

disease at the State Institute at Buffalo, New York Brief consideration is given to the theories of the action of radiotherapy and to some of its known effects in animal tissue and in the human or

The author regards the gamma ray of radium and the roengten ray as practically the same in proper ties and action and uses them more or less inter changeably or in combination. He believes it is essential to work with isodose curves for all deap roentgen ray treatment and also in the use of all

types of radium containers and packs In the technique of deep roentgen therapy, a kilovoltage of 200 kv, a filtration of 05 mm of copper and a milhamperage of either S or 30 are constant factors The dosage is varied by varying the time and skin target distance to suit the requi e ments of the particular case. The treatments are usually given in divided doses. In order to reduce irradiation sickness to the minimum it is important to use as small a field and as short an exposure time as are consistent with good results

The methods used are classified into (1) those of value for lesions at or near the surface and (2) those of value for lesions in the interior of the body The first are used for lesions requiring moderate or light dosage which can be given in single fields The method employed in treating mammary car cinoma is described in detail. For irradiation of the cervix the body of the uterus the rectum, the prostate, the bladder the vagina, etc , cross firing through two opposite parallel fields is done and radium is applied locally by seeds or tubes, or both

The article includes dosage tables devised to sim plify the measurement of dosage in the treatment of two opposite parallel fields by the cross fire When it is necessary to employ more than two fields in cross firing measurements should be made with the isodose curves or the field selector of Holfelder applied to an exact diagram of the part

that is to be treated

Among the special methods that have proved of value are the three triangular fields method for the irradiation of localized tumors 2 or 3 cm under the surface of the skin and the triangular box method which is especially valuable for tumors about the tnee and ankle joints. The latter and a method used in the treatment of carcinoma of the pylorus are described briefly

The results obtained in a large variety of cases are summarized In conclusion the author states that only 30 per cent of cases of malignancy could be treated satisfactorily by radiotherapy

ADOLPH HARTUNG M D

MISCELLANEOUS

rapidly

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Blotner H and Fitz R. On Diabetic Gangrene with Particular Reference to the Value of Insulin in Its Treatment Boston W & S J 1926 CTCH 1155

The authors report a clinical study of diabetic gangrene in sixty nine cases observed at the Peter Bent Brigham Hospital Boston In their expe rience gangrene has been a relatively frequent com plication of diabetes occurring in 7 per cent of the cases

Gangrene usually depends upon obliterative vascular lesions in the extremities of elderly persons suffering from diabetes with superimposed infection thrombosis or osteomyelitis but it may occur also in young person with essentially normal blood sessels and it may be of infectious points attack does not prevent subsequent attacks

The underlying gruss of the vascular disea e en countered in the majority of cases of diabetic gan grene is unknown. In the cress reviewed by the authors symbilis we of little importance as an etiological factor and the relation of the biochemical changes in diabetes to the development of arterio sciero is 7/45 7 matter of speculation

In 6, per cent of the cases trauma was the im mediate cause of the gangrene I requently this was of a very minor nature. The cases in which the condition developed during the winter were more numerous than those in which it developed during the summer I no patients developed gangrene while at rest and under observation in the hospital Minor injuries told weather and lack of exercise therefore seemed to be important factors in the precipitation of the gangrene

Diabetic gangrung has a notably high death rate Twenty three per cent of the patients studied by the authors hed while they were under treatment in the hospital. The most important immediate cause of death was infection. It times an overwhelming general infection developed from a small local lesion Other less important causes of death were shock or unavoidable vascular accidents

Gangrene is often a preventable complication of diabetes. The avoidance of dirt of minor injuries of chilling of the hands and feet and of a too edentary life are important prophylactic measures

The treatment of gangrene consists in the employ ment of medical or surgical measures. On the whole the authors experience with medical treatment has been disappointing but in a few cases with very superficial and small gangrenous areas the condition cleared up under diet rest and various forms of physiotherapy

The authors have been particularly interested in the effect of insulin upon the surgical treatment of diabetic gangrene Up to October 1922 when insulin was first used in the Peter Bent Brigham Hospital the mortality in cases of gangrene was 25 per cent while since that date it has been reduced to

x8 per cent From a comparison of cases of diabetic gangrene treated surgically with and without insulin it appears that the use of insulin rapidly desugarizes patients before operation and renders it possible to give them a liberal diet during the period of con valescence from operation Before the days of insulin some nationts died in coma whereas others were forced to undergo prolonged periods of malnutrition in preparation for operation and during convalescence and as a result suffered progressive loss of neight and strength became unresistant to infection and finally required repeated operations and died after a protracted illness. Since the use of insulin nationts are made free from acidosis and prepared for operation in a few hours and shortly after operation are able to eat an adequate diet a the result of which they gain weight and strength re ist infection and recover from their illness

In conclusion the authors state that the proper use of insulin in the treatment of diabetic gangreneis as important as is the proper use of insulin in the treatment of diabetic com-

CYRIL J GLASFEL M.D.

Minot G R Lymphoblastoma Radiology 1926 VII 110

This article summarizes the data presented in two previous articles on 477 cases of various types of lymphoblastoma exclusive of lymphatic leukæmia which were studied at the Huntington Memorial Hospital Boston The incidence of the disease as regards age and sex its duration and the effect upon it of roentgen ray and radium irradiation and surgery were considered

The condition began most frequently between the ages of 20 and 24 years and next most frequently between the ages of 35 and 30 years. The majority of the patients were males. The duration of the condition was longer in females than in males and did not seem to be greatly affected by irradiation In some cases surgery had a beneficial effect, partic ularly if it was thorough employed early and fol lowed by irradiation

Four hundred and one of the patients died after an average duration of the condition of 2 76 years About to per cent of both those who were irradiated and those who were not irradiated had the disease for six years or longer. A greater percentage of the seventy six living patients have had lymphoblas toma for this length of time and a greater percent age of these than of those who died had surgical and early irradiation treatment

Irradiation is undoubtedly of great value in lymphoblastoma, in spite of the fact that it does not appear to have a notable influence on the duration of the disease, it alleviates the symptoms, decreases the size of the lesions, and improves the patient's efficiency

In many of the cases observed abdominal dis turbances were the initial symptoms or developed early in the course of the condition. Late in the disease such symptoms occurred with very great frequency. After their development the prognosis for long duration of life becomes less fayorable.

ADOLPH HARTUNG M D

Desjardins A U Radiotherapy for Lympho blastoma Radiology 1926, vii 1-1

In a study of seventy three cases of Hodgkin's disease and fifty five cases of lymphosarcoma made in 1923 it was found that the average duration of these diseases when untreated was two years and seven months and two years and five and one half months respectively. Granting that at best, such a determination can be only approximate in never theless suggests a close relation between these two conditions.

In this article the author reviews fifty seven cases of Hodgkin's disease and 126 of lymphosarcoma which were treated at the Mayo Clinic in the period from 1920 to 1923 inclusive As in the former group the diagnosis was confirmed by microscopic exami nation of the tissue. The histories and the findings of examination paralleled closely those of the previ ous series The average duration of the disease was three years and two months in the cases of Hods kin's disease and two years and four months in those of lymphosarcoma As most of the cases had been treated more or less systematically by radiotherapy it appears that radium and roentgen ray treatment usually do not prolong life to a notable degree, although in individual instances a marked effect un doubtedly was to be attributed to such treatment The prolongation of life in the Hodgkin's group was probably more apparent than real and due to the fact that this study was made after a shorter follow up period The amount of treatment given each patient may also affect the result of such a survey materially A later study is contemplated which will consider the factors of the amount and kind of treat

From the results of this study the conclusion is frawn that while life is definitely prolonged in individual cases radiotherapy does not notably prolong the average life expectancy of patients suffering from imphoblastoma, but is able to control many of the distressing chinical manifestations so that the patient may be maintained in a relatively normal state of health for long periods during the course of the discrete.

Lumsden T Immunity in Relation to Trans plantable Malignant Tumors Lancet 19 6 ccxi

In fifty rats with a J R sarcoma in each hind foot one foot was injected with anti J R S serum in three doses of 0.3 c cm each, the circulation in the foot being coincidentally shut off by constriction at the ankle for from two to three hours. In all of these animals the tumor of the treated foot disappeared rapidly, while in thrity seven regression began also in the untreated foot from seven to ten days later and went on to complete cure. After the cure these rats were found to be absolutely immune to the tumor concerned and the immunity was of long duration. It appears that in order to effect a cure and evoke immunity gradual regression of the treated tumor is essential.

There has been considerable difficulty in obtaining human cancer in a condition which admits of its culture, but certain in the observations suggest that cancer cells may have some ability to adapt themselves to repeated applications of antisera and to other adverse conditions. Although the findings made in the suggest that anti-human cancer serum would be an ideal cure for mouse cancer, it does not act as such when it is injected into the tail vein of a cancerous mouse

As it was observed that both of two co existing tumors regressed when only one was treated, it appeared possible that products absorbed from the treated tumor gave rise to antibodies in the host which caused the subsequent absorption of the un treated tumor. To determine whether this was true the serum of immune and later of 'hyper immunized 'rats was applied to J R S cells cultured in vitro The J R S cells so fed continued to grow as freely as ever, even when abundance of complement was present. There being thus no evidence of antibodies in the serum, an extract of many of the tissues of a 'hyperimmunized rat was then added to the rat's serum, but again there was no injury to the cultured IRS cells even though the rat from which these fluids had been taken was completely resistant to IRS Accordingly, it was clear that there must be some fundamental difference between this "hom ologous immunity of an animal to a tumor of its own species and the heterologous" immunity evoked in a different species, for example, by inject ing JRS cells into a rabbit sheep, or horse

Since no evidence indicating the nature of its immunity could be found in the blood or tissues of a 'hyperimmunized' rat, the possibility that its resistance was of nervous origin was considered. The fact that not only the vens leaving a tumor but also the arteries going to it are enlarged strongly suggests the action of a nerve reflex.

The e observations indicate that when a carci mome is injected into a heterologous animal it calls forth at least two varieties of antibodies (r) anti-carcinoma antibodies and (a) antibodies to the group of animals from which the antigence cancer was taken Malignant cells appear to have a special liability to

antibodies of almost any sort for they are even more susceptible to a pure anti-rat serum than the antigenic rat normal tissues

The mechanism of acquired immunity to a homol ogous tumor is still obscure but there is reason to hold that it is not brought about by means of anti bodies such as are found in the serum of an animal into which heterologous tumor cells have been in rected

The possibility that acquired immunity consists in the desensitization of some nervous mechanism cannot be ruled out entirely but no experimental evidence in favor of this hypothesis has been produced Vorsis Hamp MD

Young J The Earlier Recognition of Cancer Edinburgh M J 1926 n.s xxxiii Med Chir Soc Edinburgh 117

This article is in the main a plea to the members of the medical profession of Great Britain for propa ganda to educate the public in the earlier recognition of cancer

Young states that statistical study of the after results of cancer treatment finds few adequate records in Great Britain. He believes that this differ ence of hospital routine is one of the reasons why the urgent need for cancer propaganda is less acutely realized in the British Isles than in America and on the Continent.

Attention is called to the fact that the more favorable prognosis of accessible cancer as compared with inaccessible cancer is due in large part to easier recognition of the former. Although the results obtained in breast cancer are hundrapped by a disease duration of more than one year in over 40 per cent of the cases nearly half of the patients survive for three years and one third survive for five years after operation.

Carcinoma of the female generative organs is responsible for about 6 000 deaths skin cancer for about 2 000 deaths and cancer of the buccal cavity for about 3 000 deaths yearly in Great Britain

In conclusion Young stries that there is now ample evidence that the aims of propaganda are being wheved in America and on the Continent as cases are coming under treatment at an appreciably carlier tage than formerly 1870 S GROYEM D

Fowler L H Malignant Epithelial Neoplasms Carcinoma and Epithelioma Occurring in Persons Under 26 Years of Age Surg Gynec & Obst 19 6 Mm 73

Carcinoma is much more common in youth than is carcinoma is much more common in youth than is cases of pathologically demonstrated carcinoma and were operated on at the under 20 water of age who were operated on at the 10 yet There were again, and party and January 19 4. There were again, nine cases of carcinoma and twenty three of entitlement of the party of the par

cent Eighteen and seven tenths per cent of the patients could not be traced. Only 14 2 per cent were alive more than three years after the operation. Heredity is considered to be the most important.

etiological factor in carcinoma of the young

The pathology of the neoplesms varied in the different organs. The cells showed different degrees of differentiation. The large undifferentiated cells with large oval or round nuclea and deeply stanning nucleol (one eyed cells) predominated Lack of hyalinization fibrosis lymphocytic infiltration and cellular differentiation may have been responsible for

the greater malignancy of these neoplasms in the

young as compared with those in older subjects Nearly every organ in the body has been the site of carcinoma in the young. The rectum and ovary were most ferquently involved (fourteen cases each 12 5 per cent) Occurred in the cases of carcinoma of the rectum. No patient with this condition was known to be kinnig longer than one year. The other organs were involved as follows the stomach in nine cases (8 per cent) the thyrood breast and kinden in his condition was the property of the cases were the case that the property of the cases with feach 4 per cent. In the cases were the cases (2, 8 per cent). Anomals as prominent feature of carcinoma of the right half of the colon in vouth as it is

Involvement of the neighboring lymph nodes in carcinoma of the breast and large intestine in youth reduces postoperative life and increases the ultimate mortality. In youth carcinoma in the thyroid is usually found by the pathologist and not by the surgeon, it is intracapsular and its mortality is low

in the same condition in adult life

Broders classification and grading of epithelioma is applicable in youth as well as in adult life. Seent, two and six tenths per cent of epitheliomata in youth belong to the more malignant groups (Grades 3 and 4).

SURGICAL PATHOLOGY AND DIAGNOSIS

Masaroff W M The Healing of Skin Wounds (Ueber die Heilung von Hautwunden) Verhandl d 16 russ Chir Kong Moscow 1925 p 114

In all types of healing of skin wounds there are regenerative and degenerative processes to be differentiated. During the first forty eight hours the well known merphological processes are influentially ferments. According to Gaza these are of three types the autolytic the heterolytic and the histolytic. They produce tumescence and liquifaction of the fibrils of the fibrin and of the paraplastic elements.

As early, as six hours after the injury the author was able to observe the appearance of small thin fibrils at the borders of the extravasited blood and the itssue which remained normal. These stain differently from fibrin with the Mallory stain. Assaroff believes they are pre-collagen fibers which are formed without the action of fibroblasts as the result of the

presence next to each other of two different albuminous substances Later they are acted upon by the

fibroblasts and become shorter

Nasaroff reviews the work he did in 1923 upon the regeneration of the nervous ends in cutvineous scars in man. In an aseptic wound the regeneration of nerves can be seen after one week, and after from the next to twenty five days the epithelium is reached by the growing nerve fibers. In old scars, nerve end ings of the most varying types are to be seen and sometimes even deformed Messner corpuscles. The Vater Pacini corpuscles, fatty tissue, hairs and glands do not seem to regenerate. Glands can regenerate only when the exertery duct alone has been injured.

Girgolaff, S S New Findings with Regard to Wound Healing (Acuere Ergebnisse ueber Wund heilung) Verhandl d 16 russ Chir Kong Mocow, 1925 p 118

The author reviews the findings of studies made by himself and his students on wound healing which he classes with the inflammatory processes. Three periods are to be distinguished. The first or preparatory period is that in which the trauma, the solution of continuity of the tissues, the injury of the nerve fibers, and the coagulation of the extra vasated blood and lymph occur. In this period two zones may be distinguished, the zone of passive destruction with

fermentative processes, and the zone of active re-

The second period, which begins a few hours after the first may be called the first stage of regeneration. It is characterized by an increased hydrogen ion concentration i.e. a local acidosis. The author measured this acidosis in aseptic wounds. It begins very suddenly increases for forty eight hours and then decreases so slowly that fourteen days after the injury conditions in the scar are not yet normal. To this first stage of regeneration belong the appear ance of mesodermal elements the new formation of the capillaries, and the formation of precollagenous and collagenous fibers.

In the third period, the period of true scar regeneration the local wound reaction again becomes weakly alkaline and contraction of the scar occurs. At the same time there may be demonstrated the processes of the second stage of regeneration. To this stage belongs the ristoration of function. The collagenous fibers as well as the elastic fibers reach their full development, the vascular system becomes organized, and the scar becomes penetrated by elements of the peripheral nervous system, a process of great importance for function. Only when there is complete restoration of the relation of the part to the organism by means of the nerves can the healing process be regarded as entirely complete.

Korvuann (Z)

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